

Solve: $9 + a = 15$	$a =$
Evaluate: $12 + (-8) + 3$	
Simplify: $2x + 4 + 3x + 5$	
Solve: $12 - k = 4$	$k =$
Simplify: $4(3 + s) - 7$	
Simplify: $b + b + 2b$	
Solve: $\frac{r}{6} = \frac{12}{18}$	$r =$
Simplify: $7 - 3(f - 2)$	
Evaluate: $-5 + (-4) - 1$	
Solve: $63 \div c = 9$	$c =$
Simplify: $2(s - 1) + 4 + 5s$	
Simplify: $8m - 9(m + 2)$	
Solve: 3 ft. = 1 yd. _____ ft. = 9 yds.	
Evaluate: $4 - (-2) + 8$	
Simplify: $2k + 3 - 5(k + 7)$	

Solve: $10 - 6 = g$	$g =$
Simplify: $9 - 4d + 2 + 7d$	
Simplify: $5(b - 3) - b$	
Solve: $q \cdot 5 = 30$	$q =$
Evaluate: $8 - (-6) - 4$	
Simplify: $2 + w(w - 5)$	
Solve: 1 ft. = 12 in. 5 ft. = _____ in.	
Simplify: $4 - 7b + 5(b - 1)$	
Simplify: $s + 2s - 4s$	
Solve: $x + 4 = 7$	$x =$
Simplify: $-5(q + 3) + 9$	
Evaluate: $9 + (-3) - 8$	
Solve: $\frac{12}{2} = \frac{48}{m}$	$m =$
Simplify: $y^2 + y - 4y + 3y^2$	
Simplify: $3(c + 2) - 2c$	

Solve: $3 \cdot 8 = m$	$m =$
Evaluate: $-9 + 5 + 8$	
Simplify: $x + 2(x - 5) - 3$	
Solve: $d - 5 = 4$	$d =$
Simplify: $5(3 + f) - 2f + 6$	
Simplify: $5 - 2b + 4(b + 3)$	
Solve: 4 qts. = 1 gal. _____ qts. = $3 \frac{1}{4}$ gals.	
Simplify: $4(y + 1) - 8y$	
Evaluate: $14 - 7 + (-3)$	
Solve: $\frac{36}{6} = s$	$s =$
Simplify: $-3w^2 + 5w^2 - 5 + 12$	
Simplify: $9 - 4(v + 2)$	
Solve: $4r = 28$	$r =$
Simplify: $16 + 2(t - 4) - 3t$	
Simplify: $c - 3(c + 2) + 8$	

Solve: $\frac{1.5}{3} = \frac{h}{9}$	$h =$
Simplify: $7b - 4 - 3 - 2b$	
Simplify: $2j - 3(j - 4)$	
Solve: $6 + 7 = v$	$v =$
Evaluate: $-5 + 6 - 6$	
Simplify: $4 + 10(1 - r)$	
Solve: 2.5 cm. = 1 in. _____ cm. = 6 in.	
Simplify: $6a + 2a - 9 + 3a^2$	
Evaluate: $-1 + 4 + (-7)$	
Solve: $\frac{500}{j} = \frac{10}{2}$	$j =$
Simplify: $-3(u + 3) - 2u + 5$	
Simplify: $2c - 3c - c$	
Solve: $h \div 6 = 8$	$h =$
Evaluate: $-2 + (-5) + (-8)$	
Simplify: $3z - 8z + 2 + 9$	

Solve: $9 + a = 15$	$a = 6$
Evaluate: $12 + (-8) + 3$	23
Simplify: $2x + 4 + 3x + 5$	$9 + 5x$
Solve: $12 - k = 4$	$k = 8$
Simplify: $4(3 + s) - 7$	$5 + s$
Simplify: $b + b + 2b$	$2b^3$
Solve: $\frac{r}{6} = \frac{12}{18}$	$r =$
Simplify: $7 - 3(f - 2)$	$7 - 3f - 6$
Evaluate: $-5 + (-4) - 1$	-10
Solve: $63 \div c = 9$	$c = 7$
Simplify: $2(s - 1) + 4 + 5s$	$7s + 3$
Simplify: $8m - 9(m + 2)$	$17m + 2$
Solve: 3 ft. = 1 yd. _____ ft. = 9 yds.	27
Evaluate: $4 - (-2) + 8$	14
Simplify: $2k + 3 - 5(k + 7)$	$3k + 10$

Solve: $10 - 6 = g$	$g = 4$
Simplify: $9 - 4d + 2 + 7d$	$11 + 3d$
Simplify: $5(b - 3) - b$	$4b - 3$
Solve: $q \cdot 5 = 30$	$q = 6$
Evaluate: $8 - (-6) - 4$	10
Simplify: $2 + w(w - 5)$	
Solve: 1 ft. = 12 in. 5 ft. = _____ in.	
Simplify: $4 - 7b + 5(b - 1)$	$4 - 7b + 5b - 5$
Simplify: $s + 2s - 4s$	
Solve: $x + 4 = 7$	$x = 3$
Simplify: $-5(q + 3) + 9$	$-5q - 15 + 9$
Evaluate: $9 + (-3) - 8$	2
Solve: $\frac{12}{2} = \frac{48}{m}$	$m =$
Simplify: $y^2 + y - 4y + 3y^2$	
Simplify: $3(c + 2) - 2c$	$6 + c$

Solve: $3 \cdot 8 = m$	$m = 24$
Evaluate: $-9 + 5 + 8$	
Simplify: $x + 2(x - 5) - 3$	
Solve: $d - 5 = 4$	$d = 9$
Simplify: $5(3 + f) - 2f + 6$	
Simplify: $5 - 2b + 4(b + 3)$	
Solve: 4 qts. = 1 gal. _____ qts. = $3 \frac{1}{4}$ gals.	
Simplify: $4(y + 1) - 8y$	
Evaluate: $14 - 7 + (-3)$	
Solve: $\frac{36}{6} = s$	$s = 6$
Simplify: $-3w^2 + 5w^2 - 5 + 12$	
Simplify: $9 - 4(v + 2)$	
Solve: $4r = 28$	$r = 7$
Simplify: $16 + 2(t - 4) - 3t$	
Simplify: $c - 3(c + 2) + 8$	

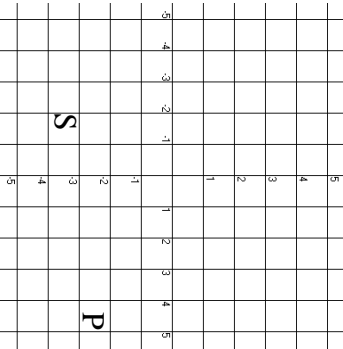
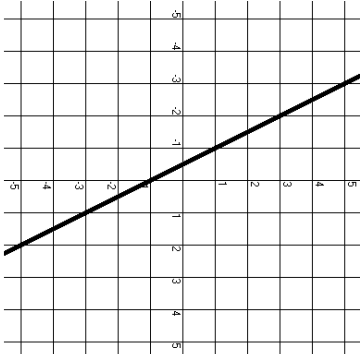

Solve: $\frac{1.5}{3} = \frac{h}{9}$	$h =$
Simplify: $7b - 4 - 3 - 2b$	
Simplify: $2j - 3(j - 4)$	
Solve: $6 + 7 = v$	$v = 13$
Evaluate: $-5 + 6 - 6$	$-5$
Simplify: $4 + 10(1 - r)$	
Solve: 2.5 cm. = 1 in. _____ cm. = 6 in.	
Simplify: $6a + 2a - 9 + 3a^2$	
Evaluate: $-1 + 4 + (-7)$	$-4$
Solve: $\frac{500}{j} = \frac{10}{2}$	$j =$
Simplify: $-3(u + 3) - 2u + 5$	
Simplify: $2c - 3c - c$	$2c$
Solve: $h \div 6 = 8$	$h = 48$
Evaluate: $-2 + (-5) + (-8)$	
Simplify: $3z - 8z + 2 + 9$	

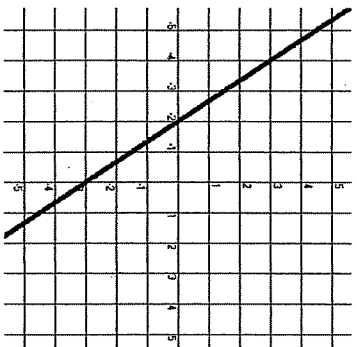
Solve: $9 + a = 15$	$a =$ <b>6</b>
Evaluate: $12 + (-8) + 3$	<b>7</b>
Simplify: $2x + 4 + 3x + 5$	<b><math>5x + 9</math></b>
Solve: $12 - k = 4$	$k =$ <b>8</b>
Simplify: $4(3 + s) - 7$	<b><math>4s + 5</math></b>
Simplify: $b + b + 2b$	<b><math>4b</math></b>
Solve: $\frac{r}{6} = \frac{12}{18}$	$r =$ <b>4</b>
Simplify: $7 - 3(f - 2)$	<b><math>-3f + 13</math></b>
Evaluate: $-5 + (-4) - 1$	<b>-10</b>
Solve: $63 \div c = 9$	$c =$ <b>7</b>
Simplify: $2(s - 1) + 4 + 5s$	<b><math>7s + 2</math></b>
Simplify: $8m - 9(m + 2)$	<b><math>-m - 18</math></b>
Solve: 3 ft. = 1 yd. ____ ft. = 9 yds.	<b>27</b>
Evaluate: $4 - (-2) + 8$	<b>14</b>
Simplify: $2k + 3 - 5(k + 7)$	<b><math>-3k - 32</math></b>

Solve: $10 - 6 = g$	$g =$ <b>4</b>
Simplify: $9 - 4d + 2 + 7d$	<b><math>3d + 11</math></b>
Simplify: $5(b - 3) - b$	<b><math>4b - 15</math></b>
Solve: $q \cdot 5 = 30$	$q =$ <b>6</b>
Evaluate: $8 - (-6) - 4$	<b>10</b>
Simplify: $2 + w(w - 5)$	<b><math>w^2 - 5w + 2</math></b>
Solve: 1 ft.=12 in. 5 ft.= ____ in.	<b>60</b>
Simplify: $4 - 7b + 5(b - 1)$	<b><math>-2b - 1</math></b>
Simplify: $s + 2s - 4s$	<b>-s</b>
Solve: $x + 4 = 7$	$x =$ <b>3</b>
Simplify: $-5(q + 3) + 9$	<b><math>-5q - 6</math></b>
Evaluate: $9 + (-3) - 8$	<b>-2</b>
Solve: $\frac{12}{2} = \frac{48}{m}$	$m =$ <b>8</b>
Simplify: $y^2 + y - 4y + 3y^2$	<b><math>4y^2 - 3y</math></b>
Simplify: $3(c + 2) - 2c$	<b><math>c + 6</math></b>

Solve: $3 \cdot 8 = m$	$m =$ <b>24</b>
Evaluate: $-9 + 5 + 8$	<b>4</b>
Simplify: $x + 2(x - 5) - 3$	<b><math>3x - 13</math></b>
Solve: $d - 5 = 4$	$d =$ <b>9</b>
Simplify: $5(3 + f) - 2f + 6$	<b><math>3f + 21</math></b>
Simplify: $5 - 2b + 4(b + 3)$	<b><math>2b + 17</math></b>
Solve: 4 qts. = 1 gal. _____ qts. = $3 \frac{1}{4}$ gals.	<b>13</b>
Simplify: $4(y + 1) - 8y$	<b><math>-4y + 4</math></b>
Evaluate: $14 - 7 + (-3)$	<b>4</b>
Solve: $\frac{36}{6} = s$	$s =$ <b>6</b>
Simplify: $-3w^2 + 5w^2 - 5 + 12$	<b><math>2w^2 + 7</math></b>
Simplify: $9 - 4(v + 2)$	<b><math>-4v + 1</math></b>
Solve: $4r = 28$	$r =$ <b>7</b>
Simplify: $16 + 2(t - 4) - 3t$	<b><math>-t + 8</math></b>
Simplify: $c - 3(c + 2) + 8$	<b><math>-2c + 2</math></b>

Solve: $\frac{1.5}{3} = \frac{h}{9}$	$h =$ <b>4.5</b>
Simplify: $7b - 4 - 3 - 2b$	<b><math>5b - 7</math></b>
Simplify: $2j - 3(j - 4)$	<b><math>-j + 12</math></b>
Solve: $6 + 7 = v$	$v =$ <b>13</b>
Evaluate: $-5 + 6 - 6$	<b>-5</b>
Simplify: $4 + 10(1 - r)$	<b><math>-10r + 14</math></b>
Solve: 2.5 cm. = 1 in. _____ cm. = 6 in.	<b>15</b>
Simplify: $6a + 2a - 9 + 3a^2$	<b><math>3a^2 + 8a - 9</math></b>
Evaluate: $-1 + 4 + (-7)$	<b>-4</b>
Solve: $\frac{500}{j} = \frac{10}{2}$	$j =$ <b>100</b>
Simplify: $-3(u + 3) - 2u + 5$	<b><math>-5u - 4</math></b>
Simplify: $2c - 3c - c$	<b><math>-2c</math></b>
Solve: $h \div 6 = 8$	$h =$ <b>48</b>
Evaluate: $-2 + (-5) + (-8)$	<b>-15</b>
Simplify: $3z - 8z + 2 + 9$	<b><math>-5z + 11</math></b>

Find the ordered pair for each point:  $P( \quad , \quad )$ $S( \quad , \quad )$ 	Fill in the empty box: <table border="1" data-bbox="1102 640 1390 871"><tr><td><math>p</math></td><td><math>2p \div 3</math></td></tr><tr><td>6</td><td></td></tr><tr><td>9</td><td>6</td></tr><tr><td>12</td><td>8</td></tr><tr><td>15</td><td>10</td></tr></table>	$p$	$2p \div 3$	6		9	6	12	8	15	10	Fill in the empty box: <table border="1" data-bbox="1102 934 1390 1161"><tr><td><math>g</math></td><td></td></tr><tr><td>-1</td><td>-1</td></tr><tr><td>1</td><td>3</td></tr><tr><td>3</td><td>7</td></tr><tr><td>5</td><td>11</td></tr></table>	$g$		-1	-1	1	3	3	7	5	11	Fill in the empty box: <table border="1" data-bbox="1102 1224 1390 1453"><tr><td><math>j</math></td><td><math>4j</math></td></tr><tr><td>-1</td><td>-4</td></tr><tr><td>-3</td><td>-12</td></tr><tr><td>-5</td><td></td></tr><tr><td>-7</td><td>-28</td></tr></table>	$j$	$4j$	-1	-4	-3	-12	-5		-7	-28	 What is the slope? What is the y-intercept?
$p$	$2p \div 3$																																	
6																																		
9	6																																	
12	8																																	
15	10																																	
$g$																																		
-1	-1																																	
1	3																																	
3	7																																	
5	11																																	
$j$	$4j$																																	
-1	-4																																	
-3	-12																																	
-5																																		
-7	-28																																	
Evaluate: $1 + 4 \cdot 3$	If $r < 8$ , two possible values for $r$ are _____ and _____	Graph the expression $b \geq 3$ 	Write the expression for this phrase: <i>a number multiplied by 6</i>																															
Simplify: $8 - 3h + 2 + 5h$	Write a word phrase for this expression: $7 - d$	Evaluate: $6^2$	Solve: $9 - 4 = w$ $w =$																															
Evaluate: $(2 + 6)(-5)$	Evaluate $14 - 2g$ when $g = 6$ _____ $g = -5$ _____	Write the expression for this phrase: <i>a number added to 5</i>	Evaluate: $\sqrt{9}$																															
Write a word phrase for this expression: $s \cdot 9$	Evaluate: $10 \div 2 + 3 - 4$	Solve: $4c = 32$ $c =$	If $(s \div 3) - 2 \geq 4$ , two possible values for $s$ are _____ and _____																															



What is the slope?

What is the  $y$ -intercept?

Fill in the empty box:

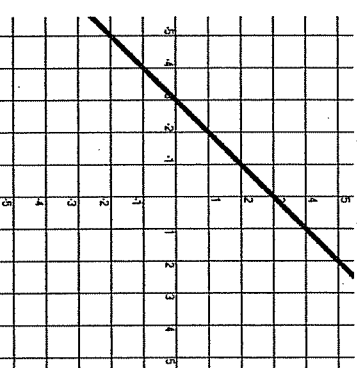
$a$	
-3	-10
3	-4
6	-1
9	2

Fill in the empty box:

$w$	$5w - 3$
-2	-13
2	
4	17
8	37

Fill in the empty box:

$d$	
1	4
5	8
9	12
10	13



What is the slope?

What is the  $y$ -intercept?

Simplify:

$$6u + 3(u + 1) + 4$$

Evaluate:

$$12 \div (-4)$$

Write the expression for this phrase:

*10 less than a number*

Graph the expression  $d < -2$



Solve:

$$9 + 5 = a$$

$a =$

Write a word phrase for this expression:

$$\frac{4}{b} - 8$$

Evaluate:

$$(-3)^3$$

Simplify:

$$4 + 2(s - 6)$$

Evaluate  $30 \div (2)$  when

$$j = 5$$

Evaluate:

$$-15 \div (9 - 6)$$

Simplify:

$$(k + 9k) + 3k$$

Write the expression for this phrase:

*2 more than a number divided by 3*

$$j = 3$$

Write a word phrase for this expression:

$$14 + c$$

Solve:

$$r \div 4 = 3$$

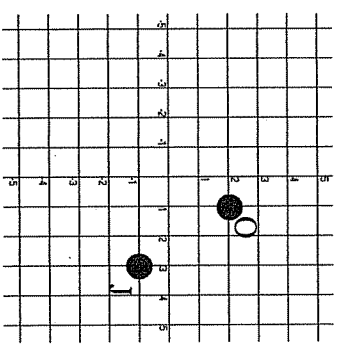
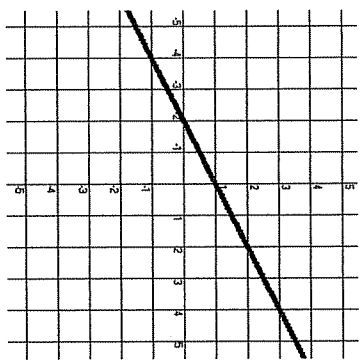

Evaluate:

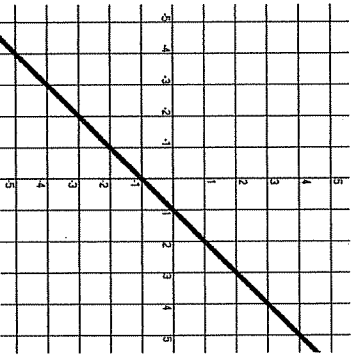
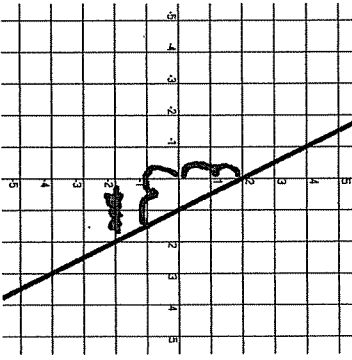

$$(9 - 5)^2 \cdot 2 \div 4$$

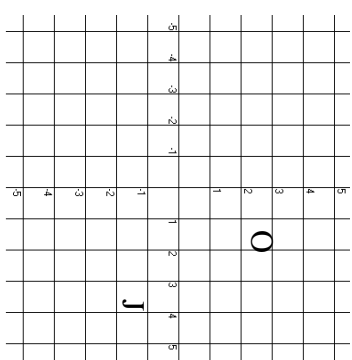

Evaluate  $3r \div 2s$  when

$$r = -6 \text{ and } s = 3$$



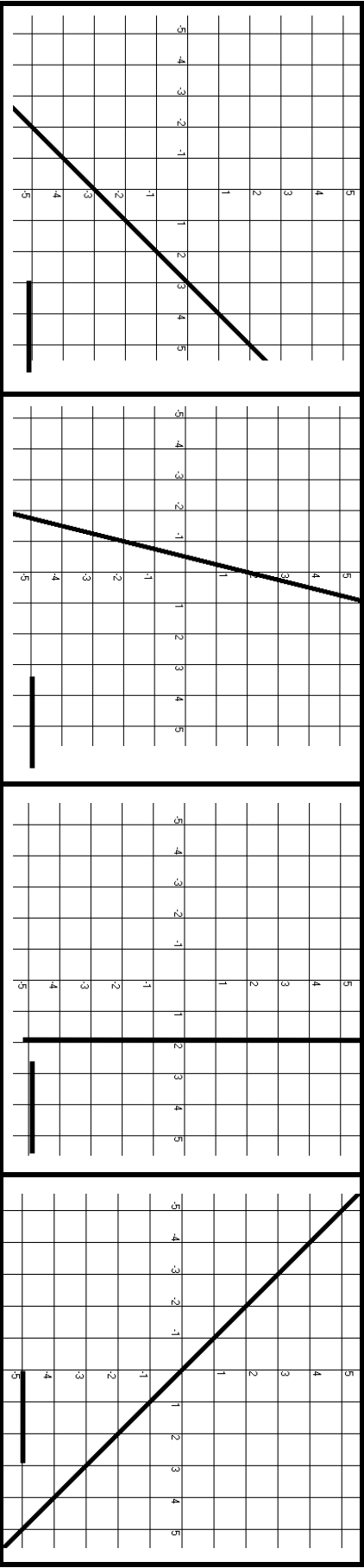
Find the ordered pair for each point:	Fill in the empty box:	Fill in the empty box:	Fill in the empty box:																															
$J(3, 1)$ $O(1, 2)$ 	<table border="1"> <tr><td><math>s</math></td><td><math>3s</math></td></tr> <tr><td>6</td><td>18</td></tr> <tr><td>7</td><td>21</td></tr> <tr><td>8</td><td>24</td></tr> <tr><td>9</td><td>27</td></tr> </table>	$s$	$3s$	6	18	7	21	8	24	9	27	<table border="1"> <tr><td><math>n</math></td><td><math>4n + 7</math></td></tr> <tr><td>-1</td><td>3</td></tr> <tr><td>-2</td><td>15</td></tr> <tr><td>-3</td><td>-5</td></tr> <tr><td>-4</td><td>-9</td></tr> </table>	$n$	$4n + 7$	-1	3	-2	15	-3	-5	-4	-9	<table border="1"> <tr><td><math>b</math></td><td><math>b + 3</math></td></tr> <tr><td>-2</td><td>-5</td></tr> <tr><td>0</td><td>-3</td></tr> <tr><td>3</td><td>0</td></tr> <tr><td>5</td><td>2</td></tr> </table>	$b$	$b + 3$	-2	-5	0	-3	3	0	5	2	<p>What is the slope? <math>\frac{1}{2}</math></p> <p>What is the y-intercept? 2</p> 
$s$	$3s$																																	
6	18																																	
7	21																																	
8	24																																	
9	27																																	
$n$	$4n + 7$																																	
-1	3																																	
-2	15																																	
-3	-5																																	
-4	-9																																	
$b$	$b + 3$																																	
-2	-5																																	
0	-3																																	
3	0																																	
5	2																																	
<p>If <math>y &gt; 9</math>, two possible values for <math>y</math> are <u>10</u> and <u>20</u></p>	<p>Evaluate: <math>9 \cdot 4 - 6</math></p> <p><u>-18</u></p>	<p>Simplify: <math>7f + (2f + f)</math></p> <p><u>10f</u></p>	<p>Solve: <math>n + 3 = 8</math> <math>n =</math></p> <p><u>5</u></p>																															
<p>Evaluate <math>4b + 2</math> when <math>b = 1</math> <u>6</u> <math>b = 3</math> <u>14</u></p>	<p>Write the expression for this phrase: <i>6 less than a number</i></p> <p><u><math>6 - x</math></u></p>	<p>Evaluate: <math>(-2) \cdot (-4)</math></p> <p><u>8</u></p>	<p>Graph the expression <math>m &gt; -5</math></p> 																															
<p>Write a word phrase for this expression: <math>n + 9</math> <i>a number added to 9</i></p>	<p>Evaluate: <math>4 + (9 \div 3) - 2^2</math></p> <p><u>3</u></p>	<p>Evaluate: <math>(-2)^3</math></p> <p><u>8</u></p>	<p>Write the expression for this phrase: <i>9 multiplied by a number</i></p> <p><u><math>9x</math></u></p>																															
<p>Evaluate <math>2x + 4y</math> when <math>x = 2</math> and <math>y = -3</math></p> <p><u>16</u></p>	<p>Write a word phrase for this expression: <math>10b - 7</math> <i>10 times 7 minus a number</i></p>	<p>Evaluate <math>8g - 4</math> when <math>g = 2</math> <u>12</u> <math>g = -2</math> <u>12</u></p>	<p>Simplify: <math>6 - 2(b - 4)</math></p> <p><u><math>2b - 14</math></u></p>																															

	What is the slope? <b>1</b>	What is the y-intercept? <b>-1</b>										
Fill in the empty box:	<table border="1" data-bbox="1110 638 1403 879"><tr><td><math>n</math></td><td><math>n-2</math></td></tr><tr><td>6</td><td>4</td></tr><tr><td>9</td><td>6</td></tr><tr><td>12</td><td>8</td></tr><tr><td>15</td><td>10</td></tr></table>	$n$	$n-2$	6	4	9	6	12	8	15	10	Fill in the empty box:
$n$	$n-2$											
6	4											
9	6											
12	8											
15	10											
Fill in the empty box:	<table border="1" data-bbox="1110 932 1403 1163"><tr><td><math>t</math></td><td><math>2t-7</math></td></tr><tr><td>-2</td><td>-11</td></tr><tr><td>2</td><td>-3</td></tr><tr><td>6</td><td><b>5</b></td></tr><tr><td>10</td><td>13</td></tr></table>	$t$	$2t-7$	-2	-11	2	-3	6	<b>5</b>	10	13	Fill in the empty box:
$t$	$2t-7$											
-2	-11											
2	-3											
6	<b>5</b>											
10	13											
Fill in the empty box:	<table border="1" data-bbox="1110 1215 1403 1457"><tr><td><math>h</math></td><td><math>h+7</math></td></tr><tr><td>-5</td><td>2</td></tr><tr><td>1</td><td>8</td></tr><tr><td>5</td><td>12</td></tr><tr><td>10</td><td>17</td></tr></table>	$h$	$h+7$	-5	2	1	8	5	12	10	17	
$h$	$h+7$											
-5	2											
1	8											
5	12											
10	17											
	What is the slope? <b>-2</b>	What is the y-intercept? <b>2</b>										
Solve: $15 - 8 = x$ <b>7</b>	Write the expression for this phrase: <b>10 divided by a number</b>											
Write the expression for this phrase: <b>10 divided by a number</b>												
Simplify: $12n - 5 + 3 - 7n$												
Solve: $6t = 36$ $t =$												
Evaluate: $(-3)(9 - 7)$	Evaluate: $\sqrt{81}$											
Solve: $24 \div x = 6$ $x =$	Evaluate: $10 - 3 + 8 \div 2$											
Graph the expression $p \leq 3$												
Evaluate: $(-12 \div 4) + 5$ <b>8</b>	Write the expression for this phrase: <b>8 more than twice a number</b> <b><math>8 \times 2n</math></b>											
Write a word phrase for this expression: $x \div 4$ <b>a number divided by 4</b>												
Evaluate: $4^2$ <b>8</b>												
If $2a + 4 < 20$ , two possible values for $a$ are _____ and _____												
Write a word phrase for this expression: $h \cdot 5$												

Find the ordered pair for each point:  J( 3, -1 )    O( 1, 2 )	Fill in the empty box:		Fill in the empty box:		Fill in the empty box:																															
	<table><tr><td>s</td><td>3s</td></tr><tr><td>6</td><td>18</td></tr><tr><td>7</td><td>21</td></tr><tr><td>8</td><td>24</td></tr><tr><td>9</td><td>27</td></tr></table>		s	3s	6	18	7	21	8	24	9	27	<table><tr><td>n</td><td>4n + 7</td></tr><tr><td>-1</td><td>3</td></tr><tr><td>-2</td><td>-1</td></tr><tr><td>-3</td><td>-5</td></tr><tr><td>-4</td><td>-9</td></tr></table>		n	4n + 7	-1	3	-2	-1	-3	-5	-4	-9	<table><tr><td>b</td><td>b - 3</td></tr><tr><td>-2</td><td>-5</td></tr><tr><td>0</td><td>-3</td></tr><tr><td>3</td><td>0</td></tr><tr><td>5</td><td>2</td></tr></table>		b	b - 3	-2	-5	0	-3	3	0	5	2
s	3s																																			
6	18																																			
7	21																																			
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9	27																																			
n	4n + 7																																			
-1	3																																			
-2	-1																																			
-3	-5																																			
-4	-9																																			
b	b - 3																																			
-2	-5																																			
0	-3																																			
3	0																																			
5	2																																			
If y > 9, two possible values for y are _____ and _____	Evaluate: 9 • 4 - 6	Simplify: 7f + (2f + f)	Solve: n + 3 = 8 n =																																	
Any number greater than 9	30	10f	5																																	
Evaluate 4b + 2 when  b = 1    6	Write the expression for this phrase: 6 less than a number	Evaluate: (-2) • (-4)	Graph the expression m > -5 																																	
b = 3    14		n - 6	8																																	
Write a word phrase for this expression: n + 9	Evaluate: 4 + (9 ÷ 3) - 2²	Evaluate: (-2)³	Write the expression for this phrase: 9 multiplied by a number																																	
Nine more than a number		3	9n																																	
Evaluate 2x + 4y when x = 2 and y = -3	Write a word phrase for this expression: 10b - 7	Evaluate 8g - 4 when g = 2    12 g = -2    -20	Simplify: 6 - 2(b - 4)																																	
-8	Seven less than ten times a number		-2b + 14																																	

	Fill in the empty box:		Fill in the empty box:		Fill in the empty box:																														
What is the slope? <b>1</b>	<table><tr><td><math>n</math></td><td><math>2n \div 3</math></td></tr><tr><td>6</td><td>4</td></tr><tr><td>9</td><td>6</td></tr><tr><td>12</td><td>8</td></tr><tr><td>15</td><td>10</td></tr></table>	$n$	$2n \div 3$	6	4	9	6	12	8	15	10	<table><tr><td><math>t</math></td><td><math>2t - 7</math></td></tr><tr><td>-2</td><td>-11</td></tr><tr><td>2</td><td>-3</td></tr><tr><td>6</td><td><b>5</b></td></tr><tr><td>10</td><td>13</td></tr></table>	$t$	$2t - 7$	-2	-11	2	-3	6	<b>5</b>	10	13	<table><tr><td><math>h</math></td><td><math>h + 7</math></td></tr><tr><td>-5</td><td>2</td></tr><tr><td>1</td><td>8</td></tr><tr><td>5</td><td>12</td></tr><tr><td>10</td><td>17</td></tr></table>	$h$	$h + 7$	-5	2	1	8	5	12	10	17	What is the slope? <b>-2</b>	
$n$	$2n \div 3$																																		
6	4																																		
9	6																																		
12	8																																		
15	10																																		
$t$	$2t - 7$																																		
-2	-11																																		
2	-3																																		
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$h$	$h + 7$																																		
-5	2																																		
1	8																																		
5	12																																		
10	17																																		
What is the y-intercept? <b>-1</b>	Evaluate: $(-12 \div 4) + 5$		Write the expression for this phrase: <i>8 more than twice a number</i>		What is the y-intercept? <b>2</b>																														
Write a word phrase for this expression: $x \div 4$	<b>A number divided by four</b>		<b>2</b>		Solve: $15 - 8 = x$ $x =$																														
Evaluate: $4^2$	Graph the expression $p \leq 3$ 		Simplify: $9x - 3 + 4(x + 9)$		Write the expression for this phrase: <i>10 divided by a number</i>																														
<b>16</b>			<b><math>13x + 33</math></b>		<b>7</b>																														
If $2a + 4 < 20$ , two possible values for $a$ are _____ and _____	Solve: $24 \div x = 6$ $x =$		Evaluate: $10 - 3 + 8 \div 2$		Simplify: $12n - 5 + 3 - 7n$																														
<b>Any number less than 8</b>	<b>4</b>		<b>11</b>		<b><math>\frac{10}{n}</math></b>																														
Write a word phrase for this expression: $h \cdot 5$	Evaluate: $(-3)(9 - 7)$		Evaluate: $\sqrt{81}$		Solve: $6t = 36$ $t =$																														
<b>A number multiplied by five</b>	<b>-6</b>		<b>9</b>		<b>6</b>																														

A	B	C	D
$y = 4x + 2$	$y = x - 3$	$y = -x$	$x = 2$

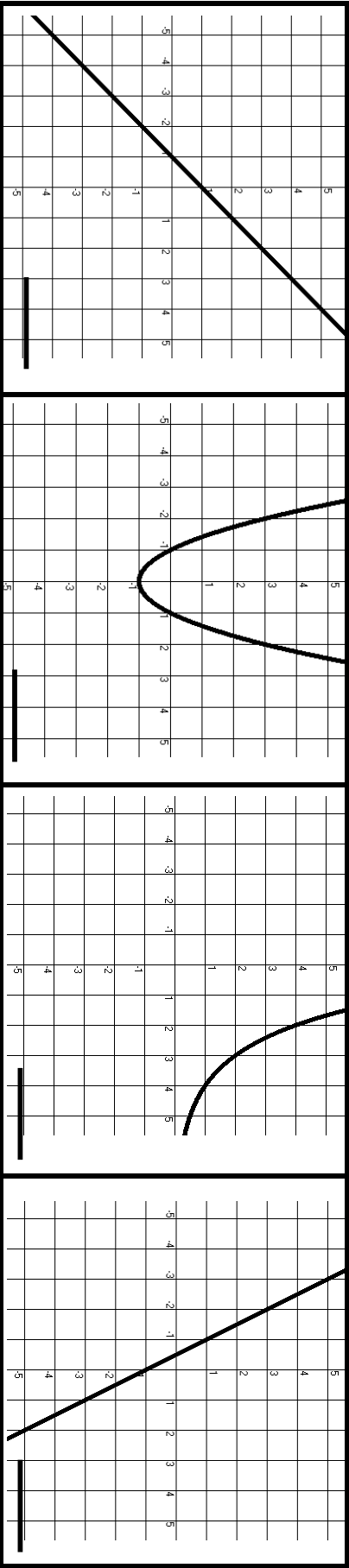


<table><tr><th><math>x</math></th><th><math>y</math></th></tr><tr><td>4</td><td>-4</td></tr><tr><td>2</td><td>-2</td></tr><tr><td>0</td><td>0</td></tr><tr><td>-2</td><td>2</td></tr><tr><td>-4</td><td>4</td></tr></table>	$x$	$y$	4	-4	2	-2	0	0	-2	2	-4	4	<table><tr><th><math>x</math></th><th><math>y</math></th></tr><tr><td>2</td><td>4</td></tr><tr><td>2</td><td>2</td></tr><tr><td>2</td><td>0</td></tr><tr><td>2</td><td>-2</td></tr><tr><td>2</td><td>-4</td></tr></table>	$x$	$y$	2	4	2	2	2	0	2	-2	2	-4	<table><tr><th><math>x</math></th><th><math>y</math></th></tr><tr><td>2</td><td>-2</td></tr><tr><td>1</td><td>-1</td></tr><tr><td>0</td><td>0</td></tr><tr><td>-1</td><td>1</td></tr><tr><td>-2</td><td>2</td></tr></table>	$x$	$y$	2	-2	1	-1	0	0	-1	1	-2	2	<table><tr><th><math>x</math></th><th><math>y</math></th></tr><tr><td>4</td><td>18</td></tr><tr><td>2</td><td>10</td></tr><tr><td>0</td><td>2</td></tr><tr><td>-2</td><td>-6</td></tr><tr><td>-4</td><td>-14</td></tr></table>	$x$	$y$	4	18	2	10	0	2	-2	-6	-4	-14	<table><tr><th><math>x</math></th><th><math>y</math></th></tr><tr><td>4</td><td>1</td></tr><tr><td>2</td><td>-1</td></tr><tr><td>0</td><td>-3</td></tr><tr><td>-2</td><td>-5</td></tr><tr><td>-4</td><td>-7</td></tr></table>	$x$	$y$	4	1	2	-1	0	-3	-2	-5	-4	-7
$x$	$y$																																																															
4	-4																																																															
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-2	-5																																																															
-4	-7																																																															

Tim is collecting state quarters for his state. He started his collection with two quarters. He wants to trade in some dollar bills for quarters. Tim wrote this equation to show how many quarters he'll have after the trade.	
Leah is three years younger than her sister. She wrote this equation to show the relationship between their ages.	
Every time Joel gets home after curfew, he loses a chance to use the car. Joel wrote this equation to show the relationship between breaking curfew and his chances to use the car.	
Sam is planning a basketball tournament. He wrote this equation to show the relationship between the number of teams in the championship game and the total number of teams in the tournament.	
Teresa has taken four quizzes and gotten the same score on each one. She also has two extra credit points. Teresa wrote this equation to show how her total quiz points would be related to the score she gets on each quiz.	

A			B			C			D		
	x	y		x	y		x	y		x	y
	4	-9		4	15		2	4		2	3
	2	-5		2	3		1	8		1	2
	0	-1		0	-1		0	16		0	1
	-2	3		-2	3		-1	32		-1	0
	-4	7		-4	15		-2	64		-2	-1

$y = 16(.5)^x$	$y = -2x - 1$	$4y = -8x - 4$	$y = x + 1$	$y = x^2 - 1$
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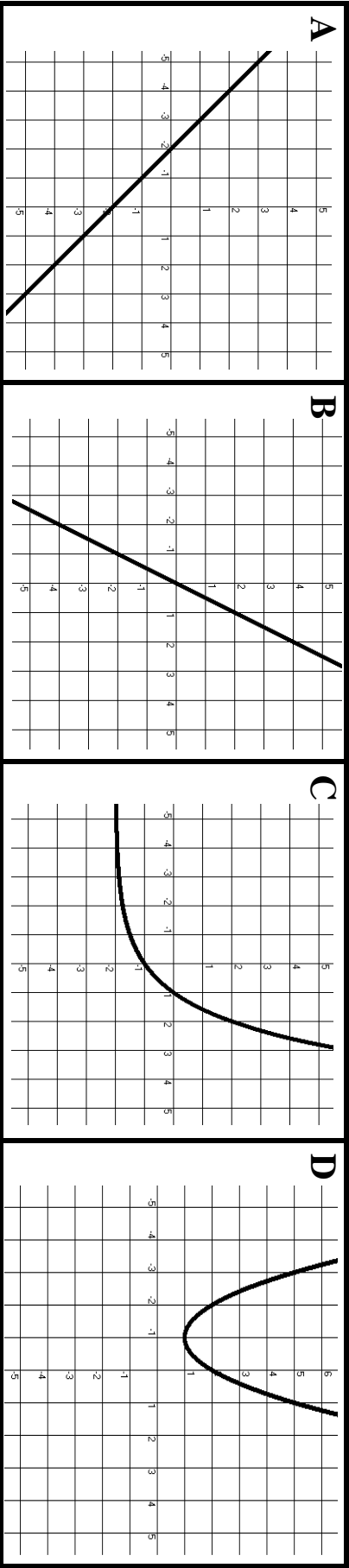
Pat is organizing the brackets for the doubles tennis tournament. Sixteen teams have entered. Pat made this data table to show how many teams will be left after each of the rounds.

LeRoy needs to buy tile for a square room. The tiles come in 1-foot squares. There is a post in the middle of the room that is the same size as one tile. LeRoy made this data table to find how many tiles he will need.

Elaine's mom gives her a list of chores to do each week. Before the week is over, she always finds one more thing that Elaine needs to do. Elaine made this data table to show the number of chores she does each week.

When Maria eats hot lunch, it costs two dollars. She already owes her sister a dollar. Maria made this data table to find out how much less money she'll have each time she eats hot lunch.

Ryan has a stool that is one foot tall. He made this data table to find the height of any person who stands on the stool.



$x$	$y$	$x$	$y$	$x$	$y$	$x$	$y$
4	14	4	8	2	10	2	-4
3	6	2	4	1	5	1	-3
2	2	0	0	0	2	0	-2
1	0	-2	-4	-1	1	-1	-1
0	-1	-4	-8	-2	2	-2	0

$y = x^2 + 2x + 2$	$y = -x - 2$	$y = 2x$	$y = 2^x - 2$	$y + 2 = 2^x$

Bryan’s dad will match his donation to the animal shelter. Brian made this graph to show the relationship between how much he gives and his total donation to the shelter.

At the teachers’ cookie swap, each teacher brings one cookie for all the teachers. The principal brings two cookies for each teacher. The cooks donate two cookies left from lunch. This graph shows the number of teachers and cookies.

The class is planting trees for Earth Day. Each hole needs to be dug two feet deeper than the height of the root ball.

This graph shows the relationship between the root ball’s height and the level of the ground.

Chris learned that a pair of mice will produce one litter of two baby mice and that when each baby matures, it will do the same. Chris made this graph to show the relationship between the generations and the total mice if the original two mice die.

Jean changed jobs and doubled her hourly pay rate. This graph shows the relationship between Jean’s old and new hourly pay rates.

*Deshawn***A**

$y = x$

**B**

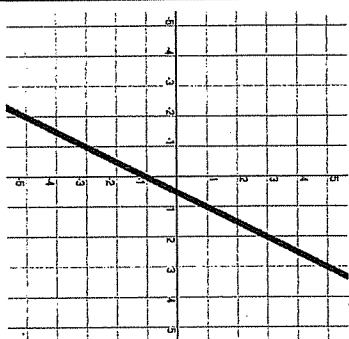
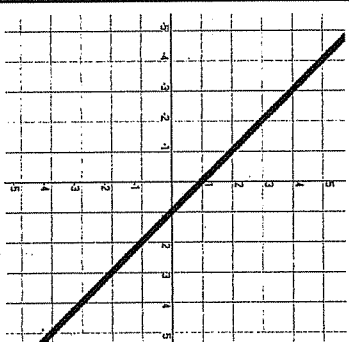
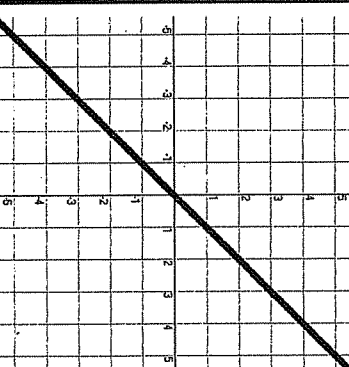
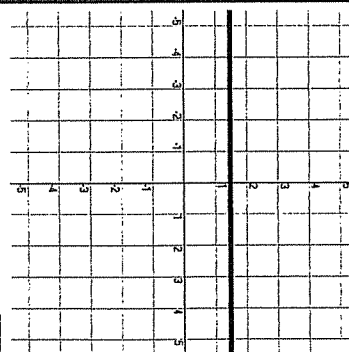
$y = 2x - 1$

**C**

$y = 1.5$

**D**

$y = -x + 1$

**D****B****A****C**

$x$	$y$
2	1.5
1	1.5
0	1.5
-1	1.5
-2	1.5

**C**

$x$	$y$
2	-1
1	0
0	1
-1	2
-2	3

**D**

$x$	$y$
2	3
1	1
0	-1
-1	-3
-2	-5

**B**

$x$	$y$
4	4
2	2
0	0
-2	-2
-4	-4

**A**

$x$	$y$
4	-3
2	-1
0	1
-2	3
-4	5

**D**

Mark needs to find half the width of pieces of pipe he is cutting to make a soccer goal. The width of the pipe is 3 inches. He wrote this equation to show the relationship between the length and the width of the pieces he will cut.

**A**

Every day that Cindy waters the garden, she earns a dollar. She wrote this equation to show the relationship between the number of days she waters the garden and the number of dollars she will earn.

**A**

Joe has one dollar in his wallet. He wrote this equation to show the relationship between the number of dollars he borrows from his friends for lunch and the total amount of money he has or owes.

**D**

The class earns \$2 for each magazine subscription sold in the fund-raiser. A \$1 fee per student is charged for a processing fee. Cindy wrote this equation to show the relationship between the number of magazines sold and the profit.

**D**

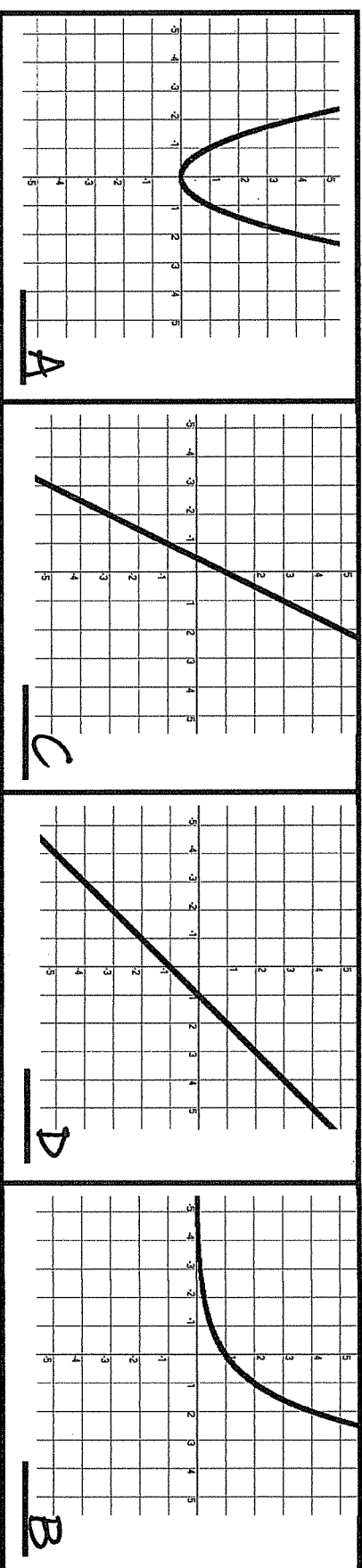
The flood waters are receding at a rate of 1 foot per day. The river is currently at 1 foot above flood stage. Tom wrote this equation to show the relationship between the number of days and the height of the river compared to flood stage.

**D**



*Deshaur*

A		B		C		D	
x	y	x	y	x	y	x	y
4	16	2	4	2	5	4	3
2	4	1	2	1	3	2	1
0	0	0	1	0	1	0	-1
-2	4	-1	$\frac{1}{2}$	-1	-1	-2	-3
-4	16	-2	$\frac{1}{4}$	-2	-3	-4	-5



$y = 2x + 1$	<u>C</u>	$y = 2^x$	<u>B</u>	$y = x - 1$	<u>D</u>	$y = x^2$	<u>B</u>	$3y = 6x + 3$	<u>A</u>
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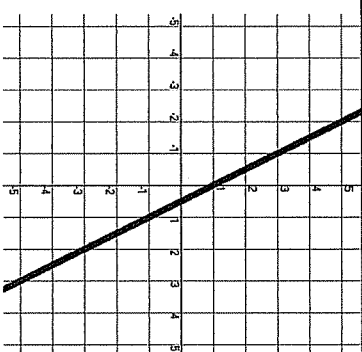
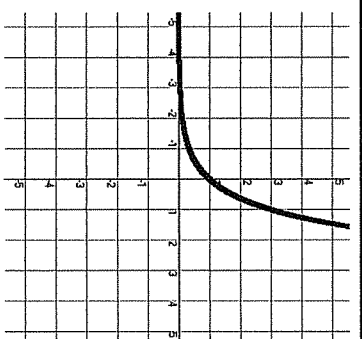
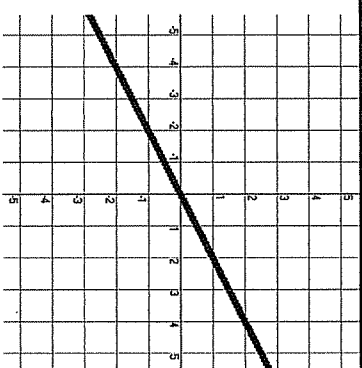
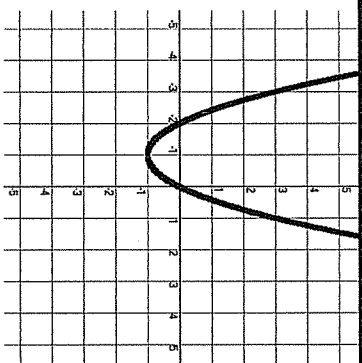
Mr. Jones is going to give a true/false test. He made this data table to show the number of possible answer combinations his students can give on the test.

Sue made this data table to figure out how many inches of wire she needs for a bracelet. Each bracelet uses two strands and she needs to add an extra inch to make a hook to fasten the bracelet.

Sam's allowance changes every year. Each month his mom pays him a dollar for each year he has lived, multiplied by his age. Sam made this data table to figure out his allowance.

Every time Hans delivers newspapers, he keeps one for his family. Hans made this data table to show how many newspapers he delivers to families on his route.

Tim's washing machine 'eats' socks. The first time he lost one sock in the wash. Now, every time he washes a load of clothes, he loses two socks. Tim made this data table to figure out how many socks he has lost.



x	y
2	-3
1	-1
0	1
-1	3
-2	5

D

x	y
4	2
2	1
0	0
-2	-1
-4	-2

B

x	y
2	9
1	3
0	1
-1	$\frac{1}{3}$
-2	$\frac{1}{9}$

C

x	y
2	8
1	3
0	0
-1	-1
-2	0

A

$$y = -2x + 1$$

$$y = x^2 + 2x$$

A

$$y = 3^x$$

$$y = x^2 + 2x$$

$$y = \frac{1}{2}x$$

B

Matt built a maze for his gerbil. Each time the gerbil comes to an intersection, it can go three possible ways. Matt made this graph to show the total possible number of routes for the gerbil through the maze.

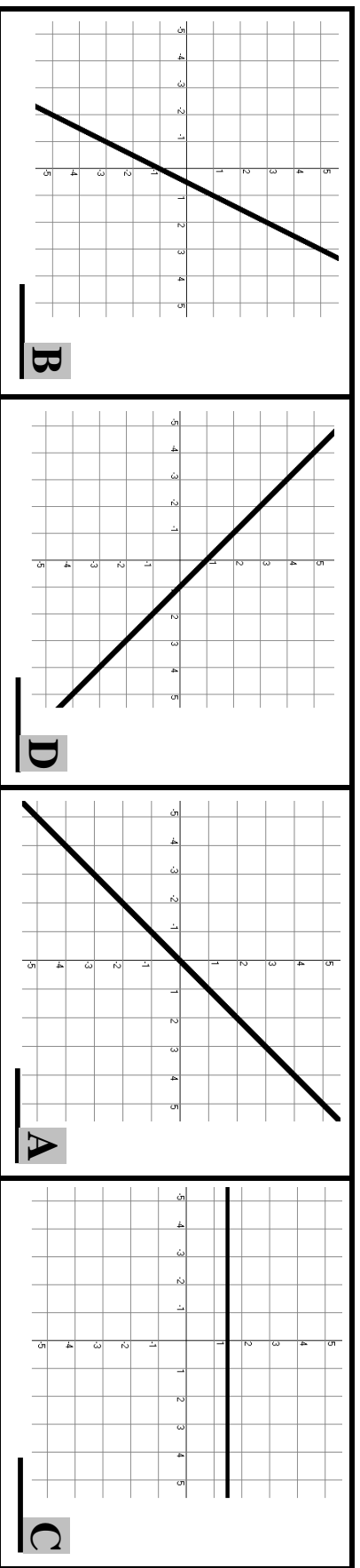
Lashaya's mom makes her save half of what she earns in the summer for college. She made this graph to show how much money she will earn for her college fund this summer.

A diving board is one foot above the surface of the pool. An average diver drops twice his height when he steps off the board. Marcus made this graph to show the diver's depth in the water.

Ming Hui has two cats, Oscar and Otis. She knows that Oscar eats twice as much as Otis. She made this graph to show how much Otis eats.

Tammy is making a backdrop for the school play. She needs to add on to a square piece of wood. The piece she will add is the same height as the square, but only 2 feet wide. Tammy made this graph to show the area of the backdrop.

A	B	C	D
$y = x$	$y = 2x - 1$	$y = 1.5$	$y = -x + 1$



<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>2</td><td>1.5</td></tr><tr><td>1</td><td>1.5</td></tr><tr><td>0</td><td>1.5</td></tr><tr><td>-1</td><td>1.5</td></tr><tr><td>-2</td><td>1.5</td></tr></table>	$x$	$y$	2	1.5	1	1.5	0	1.5	-1	1.5	-2	1.5	<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>2</td><td>-1</td></tr><tr><td>1</td><td>0</td></tr><tr><td>0</td><td>1</td></tr><tr><td>-1</td><td>2</td></tr><tr><td>-2</td><td>3</td></tr></table>	$x$	$y$	2	-1	1	0	0	1	-1	2	-2	3	<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>2</td><td>3</td></tr><tr><td>1</td><td>1</td></tr><tr><td>0</td><td>-1</td></tr><tr><td>-1</td><td>-3</td></tr><tr><td>-2</td><td>-5</td></tr></table>	$x$	$y$	2	3	1	1	0	-1	-1	-3	-2	-5	<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>4</td><td>4</td></tr><tr><td>2</td><td>2</td></tr><tr><td>0</td><td>0</td></tr><tr><td>-2</td><td>-2</td></tr><tr><td>-4</td><td>-4</td></tr></table>	$x$	$y$	4	4	2	2	0	0	-2	-2	-4	-4	<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>4</td><td>-3</td></tr><tr><td>2</td><td>-1</td></tr><tr><td>0</td><td>1</td></tr><tr><td>-2</td><td>3</td></tr><tr><td>-4</td><td>5</td></tr></table>	$x$	$y$	4	-3	2	-1	0	1	-2	3	-4	5
$x$	$y$																																																															
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Mark needs to find half the width of pieces of pipe he is cutting to make a soccer goal. The width of the pipe is 3 inches. He wrote this equation to show the relationship between the length and the width of the pieces he will cut.

A

Every day that Cindy waters the garden, she earns a dollar. She wrote this equation to show the relationship between the number of days she waters the garden and the number of dollars she will earn.

D

Joe has one dollar in his wallet. He wrote this equation to show the relationship between the number of dollars he borrows from his friends for lunch and the total amount of money he has or owes.

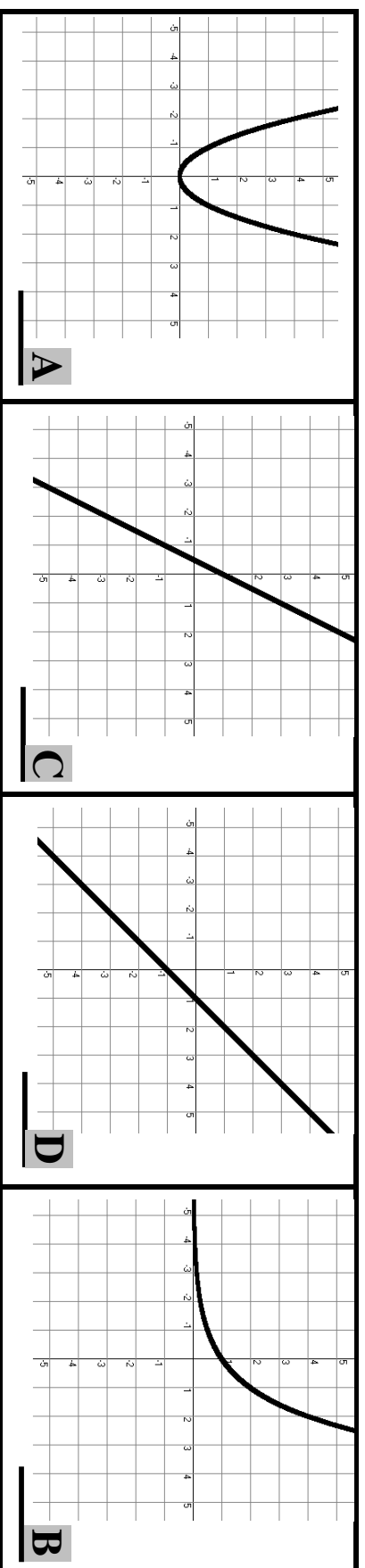
B

The class earns \$2 for each magazine subscription sold in the fund-raiser. A \$1 fee per student is charged for a processing fee. Cindy wrote this equation to show the relationship between the number of magazines sold and the profit.

D

The flood waters are receding at a rate of 1 foot per day. The river is currently at 1 foot above flood stage. Tom wrote this equation to show the relationship between the number of days and the height of the river compared to flood stage.

A		B		C		D	
x	y	x	y	x	y	x	y
4	16	2	4	2	5	4	3
2	4	1	2	1	3	2	1
0	0	0	1	0	1	0	-1
-2	4	-1	$\frac{1}{2}$	-1	-1	-2	-3
-4	16	-2	$\frac{1}{4}$	-2	-3	-4	-5



$y = 2x + 1$	<b>C</b>	$y = 2^x$	<b>B</b>	$y = x - 1$	<b>D</b>	$y = x^2$	<b>A</b>	$3y = 6x + 3$	<b>C</b>
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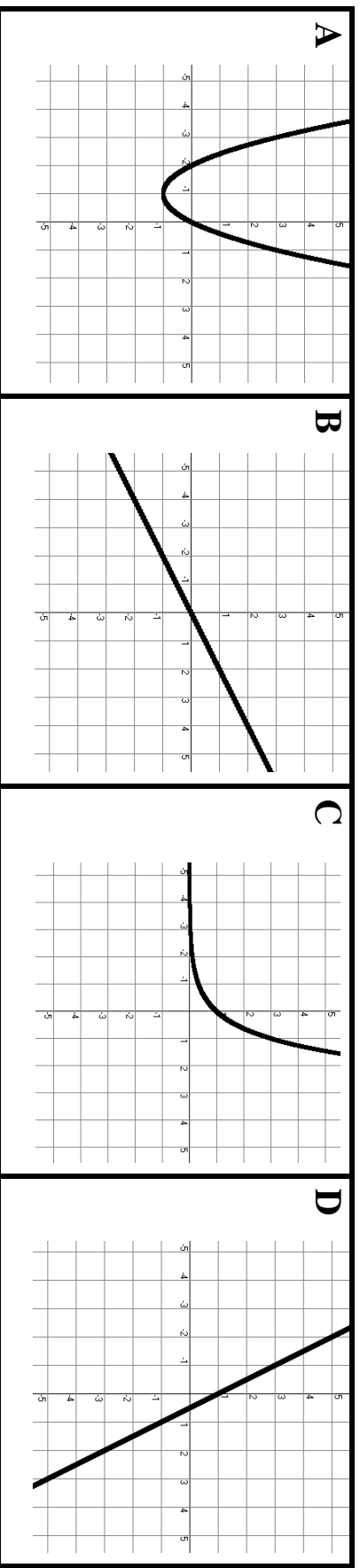
Mr. Jones is going to give a true/false test. He made this data table to show the number of possible answer combinations his students can give on the test.

Sue made this data table to figure out how many inches of wire she needs for a bracelet. Each bracelet uses two strands and she needs to add an extra inch to make a hook to fasten the bracelet.

Sam's allowance changes every year. Each month his mom pays him a dollar for each year he has lived, multiplied by his age. Sam made this data table to figure out his allowance.

Every time Hans delivers newspapers, he keeps one for his family. Hans made this data table to show how many newspapers he delivers to families on his route.

Tim's washing machine 'eats' socks. The first time he lost one sock in the wash. Now, every time he washes a load of clothes, he loses two socks. Tim made this data table to figure out how many socks he has lost.



$x$ 2 1 0 -1 -2	$y$ -3 -1 1 3 5	$x$ 4 2 0 -2 -4	$y$ 2 1 0 -1 -2	$x$ 2 1 0 -1 -2	$y$ 9 3 1 $\frac{1}{3}$ $\frac{1}{9}$	$x$ 2 1 0 -1 -2	$y$ 8 3 0 -1 -1 0
<b>D</b>		<b>B</b>		<b>C</b>		<b>A</b>	

$y = -2x + 1$	<b>D</b>	$y = x^2 + 2x$	<b>A</b>	$y = 3^x$	<b>C</b>	$y = x(x + 2)$	<b>A</b>	$y = \frac{1}{2}x$	<b>B</b>
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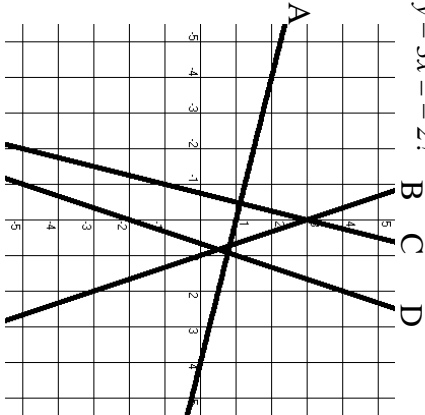
Matt built a maze for his gerbil. Each time the gerbil comes to an intersection, it can go three possible ways. Matt made this graph to show the total possible number of routes for the gerbil through the maze.


LaShaya's mom makes her save half of what she earns in the summer for college. She made this graph to show how much money she will earn for her college fund this summer.

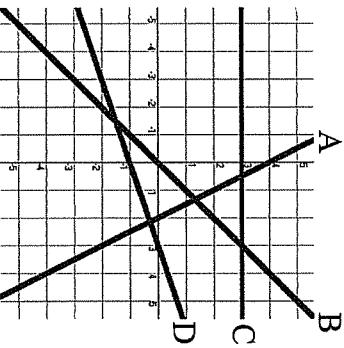

A diving board is one foot above the surface of the pool. An average diver drops twice his height when he steps off the board. Marcus made this graph to show the diver's depth in the water.

Ming Hui has two cats, Oscar and Otis. She knows that Oscar eats twice as much as Otis. She made this graph to show how much Otis eats.

Tammy is making a backdrop for the school play. She needs to add on to a square piece of wood. The piece she will add is the same height as the square, but only 2 feet wide. Tammy made this graph to show the area of the backdrop.

Solve: $9c - 4 = 14$ $c =$	Find the slope of a line through $(2, 6), (9, -8)$	Evaluate the expression: $(-2)^3$	Write the equation of a line through $(-5, 5), (-8, -1)$ . Use point-slope form.
a) $\frac{10}{9}$ b) 2 c) 1 d) -2	a) -2 b) $\frac{3}{5}$ c) $\frac{1}{2}$ d) 2	a) $-\frac{1}{8}$ b) $\frac{1}{6}$ c) -6 d) -8	a) $y - 5 = 2(x - 5)$ b) $y - 5 = \frac{1}{2}(x + 5)$ c) $y - 5 = 2(x + 5)$ d) $y = 2x + 15$
Which line on the graph is $y - 3x = -2$ ?	Evaluate $(x^3 - 7) \div 4 + y$ when $x = 3$ and $y = 5$	Simplify: $10u + 6 + u^2 - 5 - 5u$	Simplify: $2(6 - 2a) + 5(6a + 3)$
 a) Line A b) Line B c) Line C d) Line D	a) 5 b) 11 c) 10 d) 1	a) $u^2 + 15u + 11$ b) $16u^2 + 1$ c) $16u + u^2$ d) $u^2 + 5u + 1$	a) $28a + 15$ b) $38a + 3$ c) $26a + 27$ d) $32a + 9$

<p>Write the equation in slope-intercept form if <math>m = \frac{2}{3}</math> and <math>b = -1</math></p>	<p>Simplify the expression:</p> $\frac{f^3 g^3}{f g^2} \cdot \frac{g^2}{f g^3}$	<p>Solve the linear system:</p> $\begin{aligned} -x + y &= -2 \\ -2x - y &= -7 \end{aligned}$	<p>Solve:</p> $8x - 1 = -2x + 49$ $x =$
<p>a) <math>y = -x + \frac{2}{3}</math>      b) <math>3y = 2x + 1</math></p> <p>c) <math>y = \frac{2}{3}x - 1</math>      d) <math>y = \frac{2}{3}x + 1</math></p>	<p>a) <math>\frac{f^3 g^3}{f^3 g^5}</math>      b) <math>\frac{f}{g^2}</math></p> <p>c) <math>\frac{f^2}{f g^2}</math>      d) <math>\frac{f}{g}</math></p>	<p>a) <math>(-3, 1)</math></p> <p>b) <math>(3, 1)</math></p> <p>c) <math>(1, -1)</math></p> <p>d) <math>(-2, 0)</math></p>	<p>a) <math>\frac{6}{48}</math></p> <p>b) <math>\frac{10}{10}</math></p> <p>c) <math>\frac{7}{7}</math></p> <p>d) <math>5</math></p>
<p>Evaluate <math>-f + 5g^2 + 9</math> when <math>f = 10</math> and <math>g = 3</math></p>	<p>Solve the linear system:</p> $\begin{aligned} 3x + 2y &= 6 \\ 5x + 4y &= 8 \end{aligned}$	<p>Simplify:</p> $6(5p - 1) - 5(-2p - 2)$	<p>This graph shows the solution for which inequality?</p> 
<p>a) 44</p> <p>b) 49</p> <p>c) 26</p> <p>d) -5</p>	<p>a) <math>(0, 3)</math></p> <p>b) <math>(1, -6)</math></p> <p>c) <math>(2, 0)</math></p> <p>d) <math>(4, -3)</math></p>	<p>a) <math>40p + 4</math></p> <p>b) <math>40p - 16</math></p> <p>c) <math>3p - 3</math></p> <p>d) <math>20p - 4</math></p>	<p>a) <math>x &gt; -2</math></p> <p>b) <math>2x \leq -4</math></p> <p>c) <math>3x &lt; -6</math></p> <p>d) <math>x + 3 &lt; 2</math></p>

<p>Solve:  <math>3x + 4 = 19</math>  <math>x = -4 - 4</math></p> <p><u><math>3x = 15</math></u>  <math>x = 5</math></p> <p>a) 8  b) 22  c) 15  d) <u>5</u></p>	<p>Evaluate <math>a^2 - b \div 2</math> when  <math>a = 4</math> and <math>b = 6</math></p> <p><math>4^2 - 6 \div 2</math>  <math>8 - 6 \div 2</math>  <math>8 - 3</math></p> <p>a) 1  b) <u>5</u>  c) 10  d) 13</p>	<p>Which line on the graph is  <math>y + 2x = 4</math>?</p>  <p>a) Line A  b) Line B  c) Line C  d) <u>Line D</u></p>	<p>Simplify:  <math>3(m + 2) + 2(m - 1)</math></p> <p><math>3m + 6 + 2m - 1</math>  <math>5m + 5</math></p> <p>a) <math>5m + 4</math>  b) <u><math>5m + 1</math></u>  c) <math>6m + 8</math>  d) <math>6m - 8</math></p>
<p>Evaluate the expression:  <math>6^{-2}</math></p> <p><math>-36</math></p> <p>a) <u><math>-36</math></u>  b) <math>\frac{1}{36}</math>  c) <math>\frac{1}{12}</math>  d) <math>-12</math></p>	<p>Solve the linear system:  <math>x - y = 4</math>  <math>x + 2y = 19</math></p> <p>a) <math>(-1, -5)</math>  b) <math>(5, 8)</math>  c) <math>(-2, 19)</math>  d) <math>(9, 5)</math></p>	<p>This graph shows the solution for  which inequality?</p>  <p><math>x \leq -3</math></p> <p>a) <math>x &gt; -3</math>  b) <math>2x \leq -6</math>  c) <math>-3x &gt; 9</math>  d) <math>3x \geq 9</math></p>	<p>Write the equation in slope-intercept form if <math>m = \frac{1}{2}</math> and <math>b = 3</math></p> <p><math>y = mx + b</math>  <math>y = \frac{1}{2}x + 3</math></p> <p>a) <math>y = 2x + 3</math>  b) <math>y = 3x + \frac{1}{2}</math>  c) <math>x = \frac{1}{2}y - 3</math>  d) <u><math>y = \frac{1}{2}x + 3</math></u></p>



Emily

Evaluate  $d + 3c^2$  when  $d = 5$  and  $c = 2$

$$5 + 3 \cdot 2^2$$

$$5 + 6^2$$

$$5 + 36$$

Solve:

$$6c + 4 = -3c - 14$$

$$c = \frac{-4}{-4} \quad \frac{-4}{-4}$$

$$\frac{6c = -3c - 18}{+3c \quad +3c}$$

$$\frac{9c = -18}{c = 2}$$

- a)  $\frac{11}{23}$   
 b)  $\frac{23}{17}$   
 c)  $\frac{17}{10}$   
 d)  $\frac{10}{17}$

- a)  $-\frac{10}{3}$   
 b)  $-\frac{2}{6}$   
 c)  $\frac{2}{6}$   
 d)  $\frac{6}{2}$

Find the slope of a line through  $(1, -1)$   $(5, 2)$

- a)  $\frac{1}{5}$   
 b)  $\frac{3}{4}$   
 c)  $-6$   
 d)  $-\frac{4}{3}$

Simplify:  
 $6(2b - 3) - 3(2 - b)$

$$12b - 18 - 6 + 3b$$

$$9b - 24$$

- a)  $15b - 24$   
 b)  $9b - 9$   
 c)  $9b + 12$   
 d)  $15b + 12$

Simplify the expression:

$$\frac{a^2}{ab^3} \cdot \frac{b^4}{a^3}$$

Solve the linear system:

$$\begin{aligned} -6x + 3y &= -6 \\ 2x + 6y &= 30 \end{aligned}$$

Simplify:

$$b^2 - 4b + 2b^2 + 7 - 5$$

$$3b^2 - 4b + 12$$

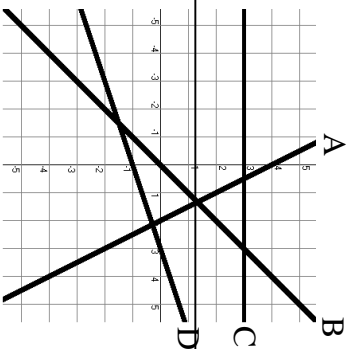

Write the equation of a line through  $(5, 3)$   $(4, 9)$ . Use point-slope form.

- a)  $\frac{a^8}{a^3b^3}$   
 b)  $\frac{ab^8}{a^4b^3}$   
 c)  $\frac{b}{a^2}$   
 d)  $\frac{b}{a}$

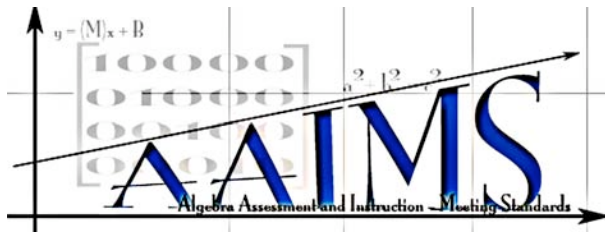
- a)  $(6, 3)$   
 b)  $(3, 4)$   
 c)  $(2, 6)$   
 d)  $(4, -3)$

- a)  $3b^2 - 4b + 2$   
 b)  $2b + 2$   
 c)  $-b^2 - 4b + 12$   
 d)  $3b^2 - 4b + 12$

- a)  $y + 1 = 2(x - 4)$   
 b)  $y + 4 = -6(x - 1)$   
 c)  $y - 3 = -6(x - 5)$   
 d)  $y = -6x + 30$

<p>Solve:  <math>3x + 4 = 19</math>  <math>x =</math>            Isolates variables by subtracting 4 from each side  <math>3x = 15</math></p>	<p>Evaluate <math>a^2 - b \div 2</math> when <math>a = 4</math> and <math>b = 6</math>            Substitutes values for variables  <math>4^2 - 6 \div 2</math>  <math>16 - 6 \div 2</math>  <math>16 - 6 = 10</math>  <math>10 \div 2</math></p>	<p>Which line on the graph is <math>y + 2x = 4</math> ?  <math>y = -2x + 4</math></p>  <p>a) <b>Line A</b>            b) Line B            c) Line C            d) Line D</p>	<p>Simplify:  <math>3(m + 2) + 2(m - 1)</math>            Distributes either term so that response includes  <math>3m + 6</math>  <u>OR</u> <math>2m - 2</math>  <u>OR</u> <math>5m</math></p>
<p>Isolates variable and divides by 3 to solve for x</p> <p>a) 8            b) 22            c) 15  <b>d) 5</b></p>	<p>Further reduces elements in the expression  <math>16 - 3</math></p> <p>a) 1            b) 5            c) 10  <b>d) 13</b></p>		<p>Distributes both terms correctly  <math>3m + 6 + 2m - 2</math></p> <p><u>OR</u> Distributes either term correctly <u>and</u> includes <math>5m</math> or <math>+ 4</math> in response            a) <b><math>5m + 4</math></b>            b) <math>5m + 1</math>            c) <math>6m + 8</math>            d) <math>6m - 8</math></p>
<p>Evaluate the expression:  <math>6^{-2}</math>            Applies the negative exponent  <math>\frac{1}{6^2}</math></p>	<p>Solve the linear system:  <math>x - y = 4</math>  <math>x + 2y = 19</math>            Chooses a correct multiplier for combination (i.e., multiply 1<sup>st</sup> equation by 2 or -1 or 2<sup>nd</sup> eq. by -1)  <u>OR</u> Isolates one variable (<math>x =</math>, <math>y =</math>) for substitution</p>	<p>This graph shows the solution for which inequality?    <math>x \leq -3</math></p>	<p>Write the equation in slope-intercept form if <math>m = \frac{1}{2}</math> and <math>b = 3</math>  <math>y = mx + b</math>  <u>OR</u> an expression that includes <math>\frac{1}{2}x</math></p>
<p>a) <math>-36</math>  <b>b) <math>\frac{1}{36}</math></b>            c) <math>\frac{1}{12}</math>            d) <math>-12</math></p>	<p>Solves correctly for 1 variable using either method <u>OR</u> follows steps to solve, but makes computational errors <u>OR</u> plugs in solution for 1 variable if using substitution            a) <math>(-1, -5)</math>            b) <math>(5, 8)</math>            c) <math>(-2, 19)</math>  <b>d) <math>(9, 5)</math></b></p>	<p>Shows evidence of understanding simplifying of inequalities by dividing answer options to isolate variables            a) <math>x &gt; -3</math>  <b>b) <math>2x \leq -6</math></b>            c) <math>-3x &gt; 9</math>            d) <math>3x \geq 9</math></p>	<p><math>\frac{1}{2}x + 3</math> (but no 'y =')            a) <math>y = 2x + 3</math>            b) <math>y = 3x + \frac{1}{2}</math>            c) <math>x = \frac{1}{2}y - 3</math>  <b>d) <math>y = \frac{1}{2}x + 3</math></b></p>

<p>Evaluate <math>d + 3c^2</math> when <math>d = 5</math> and <math>c = 2</math></p> <p>Substitutes values for variables</p> $5 + 3 \cdot 2^2$	<p>Solve:</p> $6c + 4 = -3c - 14$ $c =$ <p>Isolates variables on 1 side (+ 3c or - 6c to both sides)</p> <p>OR Isolates constants on 1 side (-4 or + 14 to both sides)</p>	<p>Find the slope of a line through (1, -1) (5, 2)</p> <p>Draws a graph to determine slope</p> <p>OR uses slope formula</p> $\frac{2 - (-1)}{5 - 1} \quad \text{or} \quad \frac{-1 - 2}{1 - 5}$	<p><sup>24</sup>Simplify:</p> $6(2b - 3) - 3(2 - b)$ <p>Distributes either term so that response includes</p> $12b - 18$ <p>OR</p> $-6 + 3b$ <p>OR</p> $15b$
<p>Further reduces elements in the expression</p> $5 + 3 \cdot 4$ $5 + 12$ <p>a) 11 b) 23 <b>c) 17</b> d) 10</p>	<p>Isolates constants <u>and</u> variables</p> <p>OR Isolates variables <u>or</u> constants <u>and</u> divides to solve for c</p> <p>a) <math>-\frac{10}{3}</math> <b>b) -2</b> c) 2 d) 6</p>	<p>Finds slope, but has negative values in numerator and denominator</p> $\frac{1}{5} \quad \text{b) } \frac{3}{4}$ <p>c) -6 d) <math>-\frac{4}{3}</math></p>	<p>Distributes both terms correctly</p> $12b - 18 - 6 + 3b$ <p>OR Distributes either term correctly <u>and</u> includes 15b or -24 in response</p> <p><b>a) 15b - 24</b> b) <math>9b - 9</math> c) <math>9b + 12</math> d) <math>15b + 12</math></p>
<p>Simplify the expression:</p> $\frac{a^2}{ab^3} \cdot \frac{b^4}{a^3}$ <p>Multiplies across to combine terms <u>OR</u> simplifies by reducing either the a or b terms</p> <p>EX: <math>\frac{a^2b^4}{a^4b^3}</math> or <math>\frac{a}{b^3} \cdot \frac{b^4}{a^3}</math></p>	<p>Solve the linear system:</p> $-6x + 3y = -6$ $2x + 6y = 30$ <p>Chooses a correct multiplier for combination (i.e., multiplies 1<sup>st</sup> equation by -2 or 2<sup>nd</sup> eq. by 3)</p> <p>OR Isolates one variable (x = , y =) for substitution</p>	<p>Simplify</p> $b^2 - 4b + 2b^2 + 7 - 5$ <p>Combines any 2 like terms (i.e., b<sup>2</sup>, constants)</p> $3b^2 \quad \text{OR} \quad 2$	<p>Write the equation of a line through (5, 3) (4, 9). Use point-slope form.</p> <p>Determines correct slope</p> <p>OR applies slope formula</p> $\frac{9 - 3}{4 - 5} \quad \text{or} \quad \frac{3 - 9}{5 - 4} \quad \text{or} \quad m = -6$
<p>Simplifies both the a and b terms, but expression is not fully reduced</p> <p>EX: <math>a \cdot \frac{b}{a^3}</math></p> <p>a) <math>\frac{a^8}{a^3b^3}</math>      b) <math>\frac{ab^8}{a^4b^3}</math></p> <p><b>c) <math>\frac{b}{a^2}</math></b>      d) <math>\frac{b}{a}</math></p>	<p>Solves correctly for 1 variable using either method <u>OR</u> follows steps to solve, but makes computational errors <u>OR</u> plugs in solution for 1 variable if using substitution</p> <p>a) (6, 3) <b>b) (3, 4)</b> c) (2, 6) d) (4, -3)</p>	<p>Combines both like terms, but makes an error in computation</p> <p>EX: <math>3b^2 - 4b + 12</math></p> <p><b>a) <math>3b^2 - 4b + 2</math></b> b) <math>2b + 2</math> c) <math>-b^2 - 4b + 12</math> d) <math>3b^2 - 4b + 12</math></p>	<p>Uses correct slope and one other aspect of point-slope formula,</p> <p>EX: <math>y - 3 = -6(x - \square)</math>  <math>y - 9 = -6(x - \square)</math>  <math>y - \square = -6(x - 4)</math>  <math>y - \square = -6(x - 5)</math>  a) <math>y + 1 = 2(x - 4)</math>  b) <math>y + 4 = -6(x - 1)</math>  <b>c) <math>y - 3 = -6(x - 5)</math></b>  d) <math>y = -6x + 30</math></p>



## Project AAIMS Probe Scoring Summary Sheet

**For all probe types, ignore skipped problems**

### **Algebra Basic Skills probes:**

- Each correct problem is worth 1 point
- Count mathematically equivalent responses as correct
- TOTAL SCORE = number of problems correct

### **Algebra Foundations probes:**

- Each correct response/blank is worth 1 point
- Each ordered pair is counted as one point (the box with two ordered pairs is worth TWO points, not four)
- Count mathematically equivalent responses as correct
- TOTAL SCORE = total number of points earned

### **Translations probes:**

- Count the number of problems correct
- Count the number of problems incorrect
- TOTAL SCORE = number of problems correct - number of problems incorrect

### **Algebra Content Analysis probes:**

- Use the three-step partial credit scoring procedure:
  1. Is the answer correct? Score as 3 points
  2. Is the answer incorrect with no work shown? Score as a guess and mark a  $\sqrt{\phantom{x}}$  in the box. When totaling, count as -1
  3. If work is shown, but no answer or answer is incorrect, compare the student's response to the scoring rubric.
    - If the student's answer has features that match what is ABOVE the line on the rubric, score as 1 point
    - If the student's answer has features that match what is BELOW the line on the rubric, score as 2 points
    - If the student's work does NOT align with anything on the rubric, score as 0 points
- TOTAL SCORE = total number of points earned (e.g., total positive points - # of guesses)

Solve: $9 + a = 15$	$a = 6$
Evaluate: $12 + (-8) + 3$	7
Simplify: $2x + 4 + 3x + 5$	$5x + 9$
Solve: $12 - k = 4$	$k = 8$
Simplify: $4(3 + s) - 7$	$5 + s$
Simplify: $b + b + 2b$	$4b$
Solve: $\frac{r}{6} = \frac{12}{18}$	$r = 2$
Simplify: $7 - 3(f - 2)$ $-3f \div 6$	$-3f + 1$
Evaluate: $-5 + (-4) - 1$	-10
Solve: $63 \div c = 9$	$c = 7$
Simplify: $2(s - 1) + 4 + 5s$ $2s - 2$	$7s + 6$
Simplify: $8m - 9(m + 2)$	$-m + 18$
Solve: 3 ft. = 1 yd. _____ ft. = 9 yds.	27
Evaluate: $4 - (-2) + 8$	10
Simplify: $2k + 3 - 5(k + 7)$	$3k + 10$

Solve: $10 - 6 = g$	$g = 4$
Simplify: $9 - 4d + 2 + 7d$	$3d + 11$
Simplify: $5(b - 3) - b$	$-15 + 4b$
Solve: $q \cdot 5 = 30$	$q = 6$
Evaluate: $8 - (-6) - 4$	10
Simplify: $2 + w(w - 5)$	$2w - 3$
Solve: 1 ft. = 12 in. 5 ft. = _____ in.	60
Simplify: $4 - 7b + 5(b - 1)$	$9 - 2b$
Simplify: $s + 2s - 4s$	s
Solve: $x + 4 = 7$	$x = 3$
Simplify: $-5(q + 3) + 9$	
Evaluate: $9 + (-3) - 8$	
Solve: $\frac{12}{2} = \frac{48}{m}$	$m = 8$
Simplify: $y^2 + y - 4y + 3y^2$	
Simplify: $3(c + 2) - 2c$	$c + 6$

Solve: $3 \cdot 8 = m$	$m = 24$
Evaluate: $-9 + 5 + 8$	4
Simplify: $x + 2(x - 5) - 3$	
Solve: $d - 5 = 4$	$d = 9$
Simplify: $5(3 + f) - 2f + 6$	
Simplify: $5 - 2b + 4(b + 3)$	
Solve: 4 qts. = 1 gal. _____ qts. = $3 \frac{1}{4}$ gals.	
Simplify: $4(y + 1) - 8y$	
Evaluate: $14 - 7 + (-3)$	
Solve: $\frac{36}{6} = s$	$s =$
Simplify: $-3w^2 + 5w^2 - 5 + 12$	
Simplify: $9 - 4(v + 2)$	
Solve: $4r = 28$	$r = 7$
Simplify: $16 + 2(t - 4) - 3t$	
Simplify: $c - 3(c + 2) + 8$	

Solve: $\frac{1.5}{3} = \frac{h}{9}$	$h =$
Simplify: $7b - 4 - 3 - 2b$	
Simplify: $2j - 3(j - 4)$	
Solve: $6 + 7 = v$	$v = 13$
Evaluate: $-5 + 6 - 6$	-5
Simplify: $4 + 10(1 - r)$	
Solve: 2.5 cm. = 1 in. _____ cm. = 6 in.	
Simplify: $6a + 2a - 9 + 3a^2$	
Evaluate: $-1 + 4 + (-7)$	
Solve: $\frac{500}{j} = \frac{10}{2}$	$j = 100$
Simplify: $-3(u + 3) - 2u + 5$	
Simplify: $2c - 3c - c$	-2c
Solve: $h \div 6 = 8$	$h = 48$
Evaluate: $-2 + (-5) + (-8)$	
Simplify: $3z - 8z + 2 + 9$	

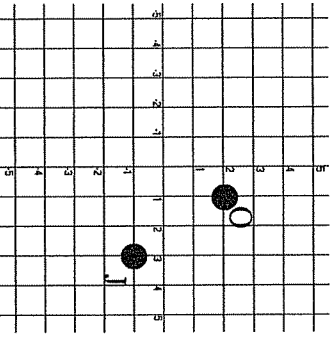
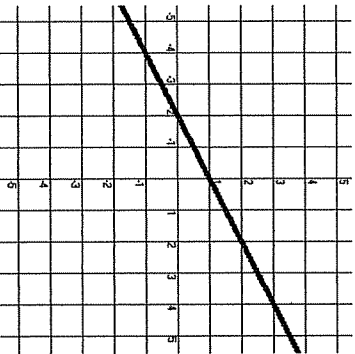

Solve: $9 + a = 15$	$a =$ <b>6</b>
Evaluate: $12 + (-8) + 3$	<b>7</b>
Simplify: $2x + 4 + 3x + 5$	<b><math>5x + 9</math></b>
Solve: $12 - k = 4$	$k =$ <b>8</b>
Simplify: $4(3 + s) - 7$	<b><math>4s + 5</math></b>
Simplify: $b + b + 2b$	<b><math>4b</math></b>
Solve: $\frac{r}{6} = \frac{12}{18}$	$r =$ <b>4</b>
Simplify: $7 - 3(f - 2)$	<b><math>-3f + 13</math></b>
Evaluate: $-5 + (-4) - 1$	<b>-10</b>
Solve: $63 \div c = 9$	$c =$ <b>7</b>
Simplify: $2(s - 1) + 4 + 5s$	<b><math>7s + 2</math></b>
Simplify: $8m - 9(m + 2)$	<b><math>-m - 18</math></b>
Solve: 3 ft. = 1 yd. _____ ft. = 9 yds.	<b>27</b>
Evaluate: $4 - (-2) + 8$	<b>14</b>
Simplify: $2k + 3 - 5(k + 7)$	<b><math>-3k - 32</math></b>

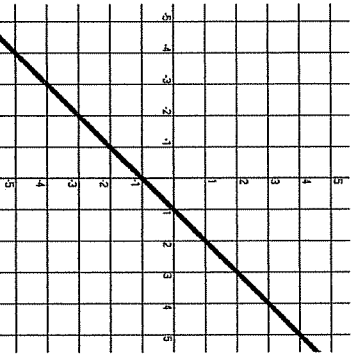
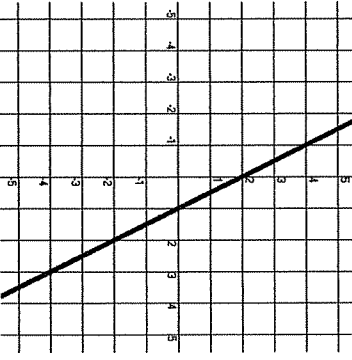
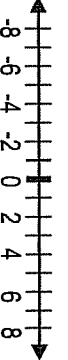
Solve: $10 - 6 = g$	$g =$ <b>4</b>
Simplify: $9 - 4d + 2 + 7d$	<b><math>3d + 11</math></b>
Simplify: $5(b - 3) - b$	<b><math>4b - 15</math></b>
Solve: $q \cdot 5 = 30$	$q =$ <b>6</b>
Evaluate: $8 - (-6) - 4$	<b>10</b>
Simplify: $2 + w(w - 5)$	<b><math>w^2 - 5w + 2</math></b>
Solve: 1 ft.=12 in. 5 ft.= _____ in.	<b>60</b>
Simplify: $4 - 7b + 5(b - 1)$	<b><math>-2b - 1</math></b>
Simplify: $s + 2s - 4s$	<b>-s</b>
Solve: $x + 4 = 7$	$x =$ <b>3</b>
Simplify: $-5(q + 3) + 9$	<b><math>-5q - 6</math></b>
Evaluate: $9 + (-3) - 8$	<b>-2</b>
Solve: $\frac{12}{2} = \frac{48}{m}$	$m =$ <b>8</b>
Simplify: $y^2 + y - 4y + 3y^2$	<b><math>4y^2 - 3y</math></b>
Simplify: $3(c + 2) - 2c$	<b><math>c + 6</math></b>

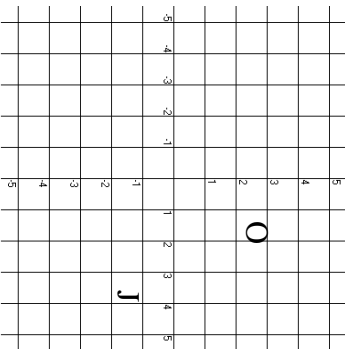
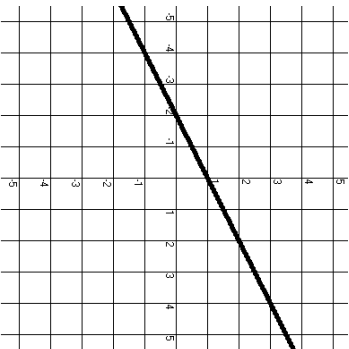

Solve: $3 \cdot 8 = m$	$m =$ <b>24</b>
Evaluate: $-9 + 5 + 8$	<b>4</b>
Simplify: $x + 2(x - 5) - 3$	<b><math>3x - 13</math></b>
Solve: $d - 5 = 4$	$d =$ <b>9</b>
Simplify: $5(3 + f) - 2f + 6$	<b><math>3f + 21</math></b>
Simplify: $5 - 2b + 4(b + 3)$	<b><math>2b + 17</math></b>
Solve: 4 qts. = 1 gal. _____ qts. = $3 \frac{1}{4}$ gals.	<b>13</b>
Simplify: $4(y + 1) - 8y$	<b><math>-4y + 4</math></b>
Evaluate: $14 - 7 + (-3)$	<b>4</b>
Solve: $\frac{36}{6} = s$	$s =$ <b>6</b>
Simplify: $-3w^2 + 5w^2 - 5 + 12$	<b><math>2w^2 + 7</math></b>
Simplify: $9 - 4(v + 2)$	<b><math>-4v + 1</math></b>
Solve: $4r = 28$	$r =$ <b>7</b>
Simplify: $16 + 2(t - 4) - 3t$	<b><math>-t + 8</math></b>
Simplify: $c - 3(c + 2) + 8$	<b><math>-2c + 2</math></b>

Solve: $\frac{1.5}{3} = \frac{h}{9}$	$h =$ <b>4.5</b>
Simplify: $7b - 4 - 3 - 2b$	<b><math>5b - 7</math></b>
Simplify: $2j - 3(j - 4)$	<b><math>-j + 12</math></b>
Solve: $6 + 7 = v$	$v =$ <b>13</b>
Evaluate: $-5 + 6 - 6$	<b>-5</b>
Simplify: $4 + 10(1 - r)$	<b><math>-10r + 14</math></b>
Solve: 2.5 cm. = 1 in. _____ cm. = 6 in.	<b>15</b>
Simplify: $6a + 2a - 9 + 3a^2$	<b><math>3a^2 + 8a - 9</math></b>
Evaluate: $-1 + 4 + (-7)$	<b>-4</b>
Solve: $\frac{500}{j} = \frac{10}{2}$	$j =$ <b>100</b>
Simplify: $-3(u + 3) - 2u + 5$	<b><math>-5u - 4</math></b>
Simplify: $2c - 3c - c$	<b><math>-2c</math></b>
Solve: $h \div 6 = 8$	$h =$ <b>48</b>
Evaluate: $-2 + (-5) + (-8)$	<b>-15</b>
Simplify: $3z - 8z + 2 + 9$	<b><math>-5z + 11</math></b>



Find the ordered pair for each point:  $J(1, 2)$ $O(3, -1)$ 	Fill in the empty box: <table border="1" data-bbox="1101 661 1388 865"> <tr> <td><math>s</math></td> <td><math>3s</math></td> </tr> <tr> <td>6</td> <td>18</td> </tr> <tr> <td>7</td> <td>21</td> </tr> <tr> <td>8</td> <td>24</td> </tr> <tr> <td>9</td> <td>27</td> </tr> </table>		$s$	$3s$	6	18	7	21	8	24	9	27	Fill in the empty box: <table border="1" data-bbox="1101 934 1388 1165"> <tr> <td><math>n</math></td> <td><math>4n + 7</math></td> </tr> <tr> <td>-1</td> <td>3</td> </tr> <tr> <td>-2</td> <td>-1</td> </tr> <tr> <td>-3</td> <td>-5</td> </tr> <tr> <td>-4</td> <td>-9</td> </tr> </table>		$n$	$4n + 7$	-1	3	-2	-1	-3	-5	-4	-9	Fill in the empty box: <table border="1" data-bbox="1101 1228 1388 1453"> <tr> <td><math>b</math></td> <td><math>b - 3</math></td> </tr> <tr> <td>-2</td> <td>-5</td> </tr> <tr> <td>0</td> <td>-3</td> </tr> <tr> <td>3</td> <td>0</td> </tr> <tr> <td>5</td> <td>2</td> </tr> </table>		$b$	$b - 3$	-2	-5	0	-3	3	0	5	2	 <p>What is the slope? <b>2</b></p> <p>What is the <math>y</math>-intercept? <b>1</b></p>
$s$	$3s$																																				
6	18																																				
7	21																																				
8	24																																				
9	27																																				
$n$	$4n + 7$																																				
-1	3																																				
-2	-1																																				
-3	-5																																				
-4	-9																																				
$b$	$b - 3$																																				
-2	-5																																				
0	-3																																				
3	0																																				
5	2																																				
If $y > 9$ , two possible values for $y$ are <b>25</b> and <b>200</b>	Evaluate: $9 \cdot 4 - 6$  <b>-18</b>		Simplify: $7f + (2f + f)$  <b>10f</b>		Solve: $n + 3 = 8$ $n =$ <b>5</b>																																
Evaluate $4b + 2$ when $b = 1$ <b>6</b> $b = 3$ <b>14</b>	Write the expression for this phrase: <i>6 less than a number</i> <b><math>n - 6</math></b>		Evaluate: $(-2) \cdot (-4)$  <b>8</b>		Graph the expression $m > -5$ 																																
Write a word phrase for this expression: $n + 9$ <b>9 added to a number</b>	Evaluate: $4 + (9 \div 3) - 2^2$ <b>4 3 -4</b> <b>3</b>		Evaluate: $(-2)^3$ <b>-6</b>		Write the expression for this phrase: <i>9 multiplied by a number</i> <b>9x</b>																																
Evaluate $2x + 4y$ when $x = 2$ and $y = -3$  <b>-8</b>	Write a word phrase for this expression: $10b - 7$		Evaluate $8g - 4$ when $g = 2$ <b>12</b> $g = -2$ <b>-12</b>		Simplify: $6 - 2(b - 4)$ <b>-2b - 8</b> <b>-2b - 2</b>																																

<p>What is the slope? <b>1</b></p> <p>What is the y-intercept? <b>-1</b></p> 	<p>Fill in the empty box:</p> <table><tr><td><math>n</math></td><td><math>n-2</math></td></tr><tr><td>6</td><td>4</td></tr><tr><td>9</td><td>6</td></tr><tr><td>12</td><td>8</td></tr><tr><td>15</td><td>10</td></tr></table>	$n$	$n-2$	6	4	9	6	12	8	15	10	<p>Fill in the empty box:</p> <table><tr><td><math>t</math></td><td><math>2t-7</math></td></tr><tr><td>-2</td><td>-11</td></tr><tr><td>2</td><td>-3</td></tr><tr><td>6</td><td><b>5</b></td></tr><tr><td>10</td><td>13</td></tr></table>	$t$	$2t-7$	-2	-11	2	-3	6	<b>5</b>	10	13	<p>Fill in the empty box:</p> <table><tr><td><math>h</math></td><td><math>h+7</math></td></tr><tr><td>-5</td><td>2</td></tr><tr><td>1</td><td>8</td></tr><tr><td>5</td><td>12</td></tr><tr><td>10</td><td>17</td></tr></table>	$h$	$h+7$	-5	2	1	8	5	12	10	17	<p>What is the slope? <b>-2</b></p> <p>What is the y-intercept? <b>2</b></p> 
$n$	$n-2$																																	
6	4																																	
9	6																																	
12	8																																	
15	10																																	
$t$	$2t-7$																																	
-2	-11																																	
2	-3																																	
6	<b>5</b>																																	
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$h$	$h+7$																																	
-5	2																																	
1	8																																	
5	12																																	
10	17																																	
<p>Write a word phrase for this expression: <math>x \div 4</math> <b>a number divided by 4</b></p>	<p>Evaluate: <math>(-12 \div 4) + 5</math> <b>2</b></p>	<p>Write the expression for this phrase: <i>8 more than twice a number</i> <b><math>8+2n</math></b></p>	<p>Solve: <math>15 - 8 = x</math> <b>7</b></p>																															
<p>Evaluate: <math>4^2</math> <b>16</b></p>	<p>Graph the expression <math>p \leq 3</math></p> 	<p>Simplify: <math>9x - 3 + 4(x + 9)</math></p>	<p>Write the expression for this phrase: <i>10 divided by a number</i></p>																															
<p>If <math>2a + 4 &lt; 20</math>, two possible values for <math>a</math> are _____ and _____</p>	<p>Solve: <math>24 \div x = 6</math> <math>x =</math> <b>4</b></p>	<p>Evaluate: <math>10 - 3 + 8 \div 2</math></p>	<p>Simplify: <math>12n - 5 + 3 - 7n</math></p>																															
<p>Write a word phrase for this expression: <math>h \cdot 5</math></p>	<p>Evaluate: <math>(-3)(9 - 7)</math></p>	<p>Evaluate: <math>\sqrt{81}</math> <b>9</b></p>	<p>Solve: <math>6t = 36</math> <math>t =</math> <b>6</b></p>																															

<p>Find the ordered pair for each point:</p> <p>J( <b>3</b>, <b>-1</b> )    O( <b>1</b>, <b>2</b> )</p> 	<p>Fill in the empty box:</p> <table><tr><td><i>s</i></td><td><i>3s</i></td></tr><tr><td>6</td><td>18</td></tr><tr><td>7</td><td>21</td></tr><tr><td>8</td><td><b>24</b></td></tr><tr><td>9</td><td>27</td></tr></table>		<i>s</i>	<i>3s</i>	6	18	7	21	8	<b>24</b>	9	27	<p>Fill in the empty box:</p> <table><tr><td><i>n</i></td><td><i>4n + 7</i></td></tr><tr><td>-1</td><td>3</td></tr><tr><td>-2</td><td><b>-1</b></td></tr><tr><td>-3</td><td>-5</td></tr><tr><td>-4</td><td>-9</td></tr></table>		<i>n</i>	<i>4n + 7</i>	-1	3	-2	<b>-1</b>	-3	-5	-4	-9	<p>Fill in the empty box:</p> <table><tr><td><i>b</i></td><td><b><i>b - 3</i></b></td></tr><tr><td>-2</td><td>-5</td></tr><tr><td>0</td><td>-3</td></tr><tr><td>3</td><td>0</td></tr><tr><td>5</td><td>2</td></tr></table>		<i>b</i>	<b><i>b - 3</i></b>	-2	-5	0	-3	3	0	5	2	<p>What is the slope?</p>  <p>What is the y-intercept? <b>1</b></p>
<i>s</i>	<i>3s</i>																																				
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3	0																																				
5	2																																				
<p>If <math>y &gt; 9</math>, two possible values for <math>y</math> are _____ and _____</p>	<p>Evaluate: <math>9 \bullet 4 - 6</math></p>	<p>Simplify: <math>7f + (2f + f)</math></p>		<p>Solve: <math>n + 3 = 8</math> <math>n =</math></p>																																	
<p><b>Any number greater than 9</b></p> <p>Evaluate <math>4b + 2</math> when</p> <p><math>b = 1</math>    <b>6</b></p> <p><math>b = 3</math>    <b>14</b></p> <p>Write a word phrase for this expression: <math>n + 9</math></p>	<p>Write the expression for this phrase: <i>6 less than a number</i></p> <p><b><i>n - 6</i></b></p>	<p>Evaluate: <math>(-2) \bullet (-4)</math></p> <p><b>10<i>f</i></b></p>		<p>Graph the expression <math>m &gt; -5</math></p>  <p>Write the expression for this phrase: <i>9 multiplied by a number</i></p> <p><b><i>9n</i></b></p>																																	
<p>Evaluate <math>2x + 4y</math> when <math>x = 2</math> and <math>y = -3</math></p> <p><b>-8</b></p>	<p>Write a word phrase for this expression: <math>10b - 7</math></p> <p><b>Seven less than ten times a number</b></p>	<p>Evaluate <math>8g - 4</math> when <math>g = 2</math>    <b>12</b> <math>g = -2</math>    <b>-20</b></p>		<p>Simplify: <math>6 - 2(b - 4)</math></p> <p><b><math>-2b + 14</math></b></p>																																	

	Fill in the empty box:		Fill in the empty box:		Fill in the empty box:	
What is the slope? <b>1</b>						
What is the y-intercept? <b>-1</b>						
Write a word phrase for this expression: $x \div 4$	Evaluate: $(-12 \div 4) + 5$	Write the expression for this phrase: <i>8 more than twice a number</i>		Solve: $15 - 8 = x$ $x =$		
<b>A number divided by four</b>	<b>2</b>	<b><math>2n + 8</math></b>		<b>7</b>		
Evaluate: $4^2$	Graph the expression $p \leq 3$ 	Simplify: $9x - 3 + 4(x + 9)$		Write the expression for this phrase: <i>10 divided by a number</i>		
<b>16</b>		<b><math>13x + 33</math></b>		<b><math>\frac{10}{n}</math></b>		
If $2a + 4 < 20$ , two possible values for $a$ are _____ and _____	Solve: $24 \div x = 6$ $x =$	Evaluate: $10 - 3 + 8 \div 2$		Simplify: $12n - 5 + 3 - 7n$		
<b>Any number less than 8</b>	<b>4</b>	<b>11</b>		<b><math>5n - 2</math></b>		
Write a word phrase for this expression: $h \bullet 5$	Evaluate: $(-3)(9 - 7)$	Evaluate: $\sqrt{81}$		Solve: $6t = 36$ $t =$		
<b>A number multiplied by five</b>	<b>-6</b>	<b>9</b>		<b>6</b>		

**A**

$y = x$

**B**

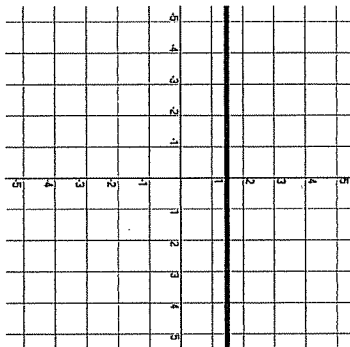
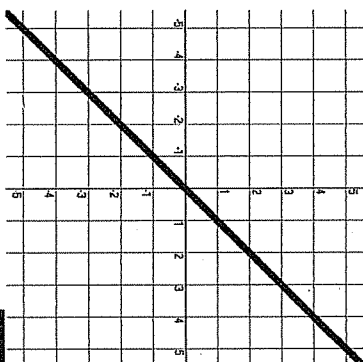
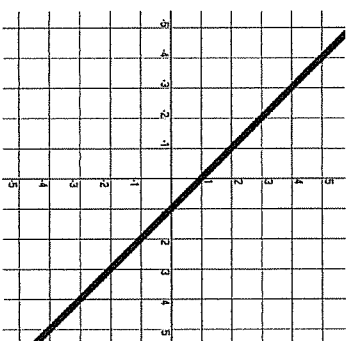
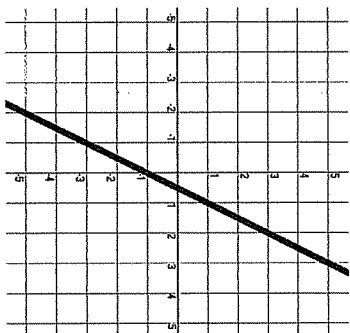
$y = 2x - 1$

**C**

$y = 1.5$

**D**

$y = -x + 1$



$x$	$y$
2	1.5
1	1.5
0	1.5
-1	1.5
-2	1.5

**C**

$x$	$y$
2	-1
1	0
0	1
-1	2
-2	3

**D**

$x$	$y$
2	3
1	1
0	-1
-1	-3
-2	-5

**B**

$x$	$y$
4	4
2	2
0	0
-2	-2
-4	-4

**A**

$x$	$y$
4	-3
2	-1
0	1
-2	3
-4	5

**D**

Mark needs to find half the width of pieces of pipe he is cutting to make a soccer goal. The width of the pipe is 3 inches. He wrote this equation to show the relationship between the length and the width of the pieces he will cut.

Every day that Cindy waters the garden, she earns a dollar. She wrote this equation to show the relationship between the number of days she waters the garden and the number of dollars she will earn.

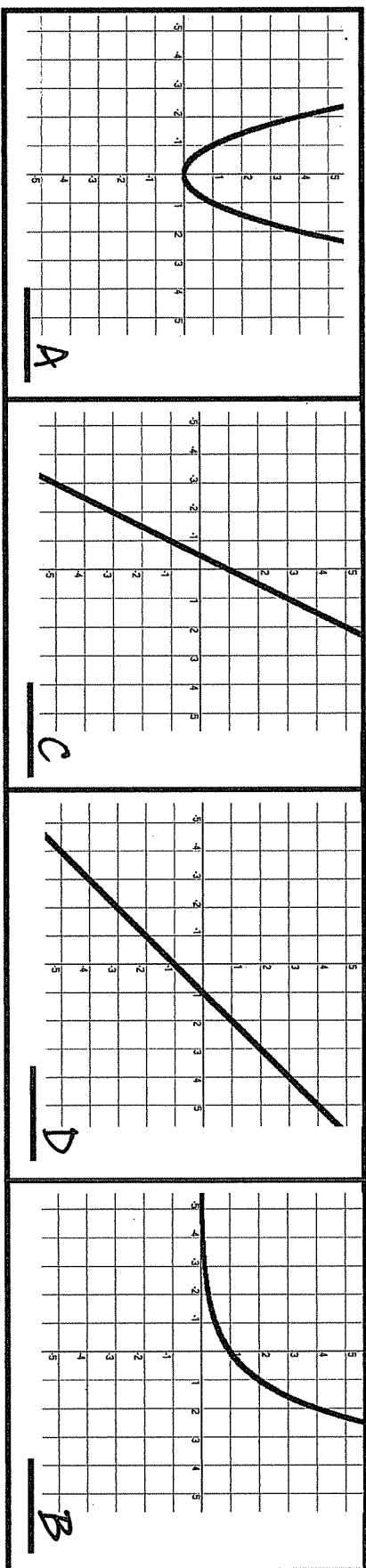
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The flood waters are receding at a rate of 1 foot per day. The river is currently at 1 foot above flood stage. Tom wrote this equation to show the relationship between the number of days and the height of the river compared to flood stage.

**A****B****C****D****A**

A		B		C		D	
x	y	x	y	x	y	x	y
4	16	2	4	2	5	4	3
2	4	1	2	1	3	2	1
0	0	0	1	0	1	0	-1
-2	4	-1	$\frac{1}{2}$	-1	-1	-2	-3
-4	16	-2	$\frac{1}{4}$	-2	-3	-4	-5



$y = 2x + 1$	C	$y = 2^x$		$y = x - 1$	D	$y = x^2$	A	$3y = 6x + 3$	
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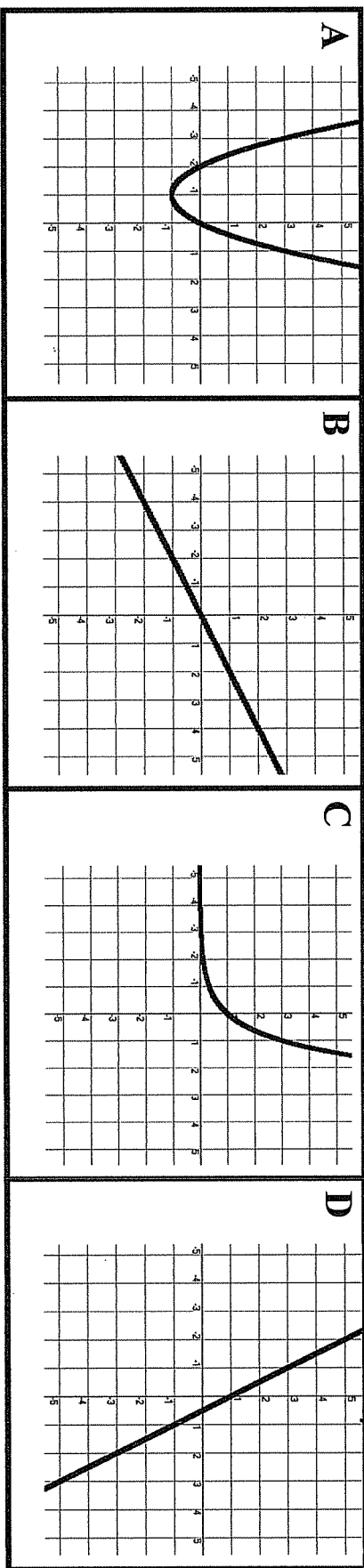
Mr. Jones is going to give a true/false test. He made this data table to show the number of possible answer combinations his students can give on the test.

Sue made this data table to figure out how many inches of wire she needs for a bracelet. Each bracelet uses two strands and she needs to add an extra inch to make a hook to fasten the bracelet.

Sam's allowance changes every year. Each month his mom pays him a dollar for each year he has lived, multiplied by his age. Sam made this data table to figure out his allowance.

Every time Hans delivers newspapers, he keeps one for his family. Hans made this data table to show how many newspapers he delivers to families on his route.

Tim's washing machine 'eats' socks. The first time he lost one sock in the wash. Now, every time he washes a load of clothes, he loses two socks. Tim made this data table to figure out how many socks he has lost.



$x$ 2 1 0 -1 -2	$y$ -3 -1 1 3 5	$x$ 4 2 0 -2 -4	$y$ 2 1 0 -1 -2	$x$ 2 1 0 -1 -2	$y$ 9 3 1 $\frac{1}{3}$ $\frac{1}{9}$	$x$ 2 1 0 -1 -2	$y$ 8 3 0 -1 0
D		A		C		B	

$y = -2x + 1$	$y = x^2 + 2x$	$y = 3^x$	$y = x(x + 2)$	$y = \frac{1}{2}x$
B				

Matt built a maze for his gerbil. Each time the gerbil comes to an intersection, it can go three possible ways. Matt made this graph to show the total possible number of routes for the gerbil through the maze.

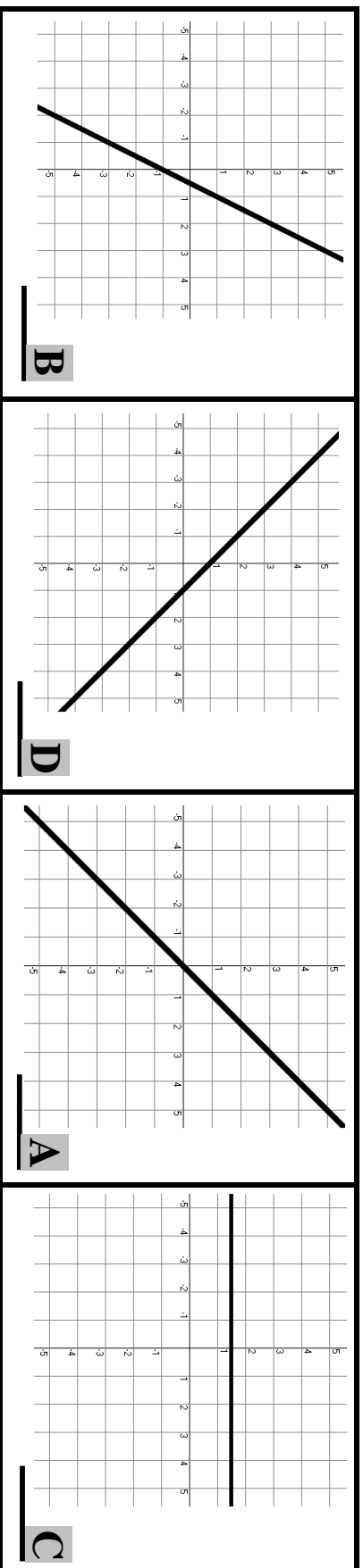
LaShaya's mom makes her save half of what she earns in the summer for college. She made this graph to show how much money she will earn for her college fund this summer.

A diving board is one foot above the surface of the pool. An average diver drops twice his height when he steps off the board. Marcus made this graph to show the diver's depth in the water.

Ming Hui has two cats, Oscar and Otis. She knows that Oscar eats twice as much as Otis. She made this graph to show how much Otis eats.

Tammy is making a backdrop for the school play. She needs to add on to a square piece of wood. The piece she will add is the same height as the square, but only 2 feet wide. Tammy made this graph to show the area of the backdrop.

A	B	C	D
$y = x$	$y = 2x - 1$	$y = 1.5$	$y = -x + 1$

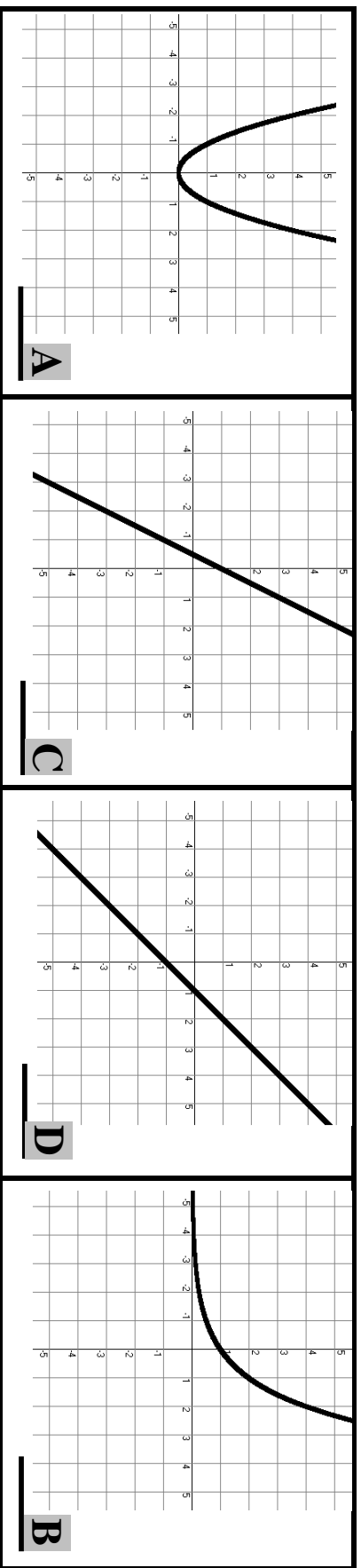


<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>2</td><td>1.5</td></tr><tr><td>1</td><td>1.5</td></tr><tr><td>0</td><td>1.5</td></tr><tr><td>-1</td><td>1.5</td></tr><tr><td>-2</td><td>1.5</td></tr></table>		$x$	$y$	2	1.5	1	1.5	0	1.5	-1	1.5	-2	1.5	<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>2</td><td>-1</td></tr><tr><td>1</td><td>0</td></tr><tr><td>0</td><td>1</td></tr><tr><td>-1</td><td>2</td></tr><tr><td>-2</td><td>3</td></tr></table>		$x$	$y$	2	-1	1	0	0	1	-1	2	-2	3	<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>2</td><td>3</td></tr><tr><td>1</td><td>1</td></tr><tr><td>0</td><td>-1</td></tr><tr><td>-1</td><td>-3</td></tr><tr><td>-2</td><td>-5</td></tr></table>		$x$	$y$	2	3	1	1	0	-1	-1	-3	-2	-5	<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>4</td><td>4</td></tr><tr><td>2</td><td>2</td></tr><tr><td>0</td><td>0</td></tr><tr><td>-2</td><td>-2</td></tr><tr><td>-4</td><td>-4</td></tr></table>		$x$	$y$	4	4	2	2	0	0	-2	-2	-4	-4	<table><tr><td><math>x</math></td><td><math>y</math></td></tr><tr><td>4</td><td>-3</td></tr><tr><td>2</td><td>-1</td></tr><tr><td>0</td><td>1</td></tr><tr><td>-2</td><td>3</td></tr><tr><td>-4</td><td>5</td></tr></table>		$x$	$y$	4	-3	2	-1	0	1	-2	3	-4	5
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4	16	2	4	2	5	4	3
2	4	1	2	1	3	2	1
0	0	0	1	0	1	0	-1
-2	4	-1	$\frac{1}{2}$	-1	-1	-2	-3
-4	16	-2	$\frac{1}{4}$	-2	-3	-4	-5



$y = 2x + 1$	<b>C</b>	$y = 2^x$	<b>B</b>	$y = x - 1$	<b>D</b>	$y = x^2$	<b>A</b>	$3y = 6x + 3$	<b>C</b>
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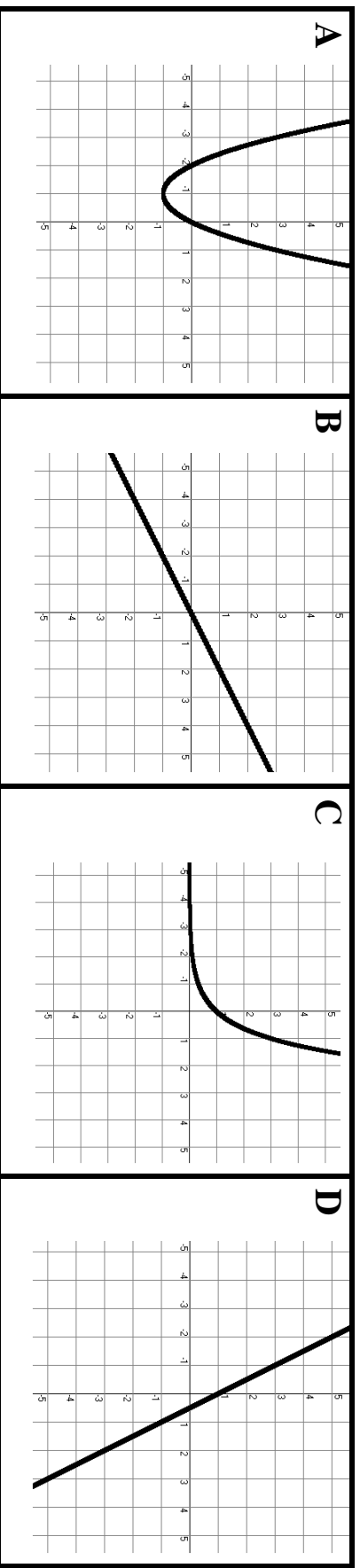
Mr. Jones is going to give a true/false test. He made this data table to show the number of possible answer combinations his students can give on the test.

Sue made this data table to figure out how many inches of wire she needs for a bracelet. Each bracelet uses two strands and she needs to add an extra inch to make a hook to fasten the bracelet.

Sam's allowance changes every year. Each month his mom pays him a dollar for each year he has lived, multiplied by his age. Sam made this data table to figure out his allowance.

Every time Hans delivers newspapers, he keeps one for his family. Hans made this data table to show how many newspapers he delivers to families on his route.

Tim's washing machine 'eats' socks. The first time he lost one sock in the wash. Now, every time he washes a load of clothes, he loses two socks. Tim made this data table to figure out how many socks he has lost.



$x$ 2 1 0 -1 -2	$y$ -3 -1 1 3 5	$x$ 4 2 0 -2 -4	$y$ 2 1 0 -1 -2	$x$ 2 1 0 -1 -2	$y$ 9 3 1 $\frac{1}{3}$ $\frac{1}{9}$	$x$ 2 1 0 -1 -2	$y$ 8 3 0 -1 -1 0
<b>D</b>		<b>B</b>		<b>C</b>		<b>A</b>	

$y = -2x + 1$	<b>D</b>	$y = x^2 + 2x$	<b>A</b>	$y = 3^x$	<b>C</b>	$y = x(x + 2)$	<b>A</b>	$y = \frac{1}{2}x$	<b>B</b>
---------------	----------	----------------	----------	-----------	----------	----------------	----------	--------------------	----------

Matt built a maze for his gerbil. Each time the gerbil comes to an intersection, it can go three possible ways. Matt made this graph to show the total possible number of routes for the gerbil through the maze.

LaShaya's mom makes her save half of what she earns in the summer for college. She made this graph to show how much money she will earn for her college fund this summer.

A diving board is one foot above the surface of the pool. An average diver drops twice his height when he steps off the board. Marcus made this graph to show the diver's depth in the water.

Ming Hui has two cats, Oscar and Otis. She knows that Oscar eats twice as much as Otis. She made this graph to show how much Otis eats.

Tammy is making a backdrop for the school play. She needs to add on to a square piece of wood. The piece she will add is the same height as the square, but only 2 feet wide. Tammy made this graph to show the area of the backdrop.

Solve:  
 $3x + 4 = 19$   
 $x =$   
~~4~~ -4

$$\frac{3x}{3} = \frac{15}{3}$$

$$x = 4$$

- a) 8  
 b) 22  
 c) 15  
 d) 5

Evaluate  $a^2 - b \div 2$  when  
 $a = 4$  and  $b = 6$

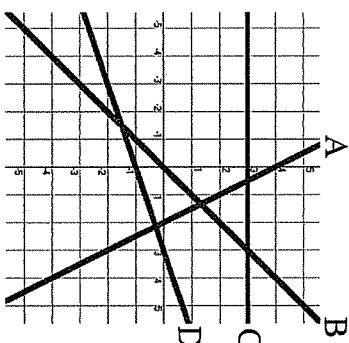
$$4^2 - 6 \div 2$$

$$8 - 6 \div 2$$

$$2 \div 2$$

- a) 1  
 b) 5  
 c) 10  
 d) 13

Which line on the graph is  
 $y + 2x = 4$ ?



- a) Line A  
 b) Line B  
 c) Line C  
 d) Line D

Simplify:  
 $3(m + 2) + 2(m - 1)$

$$3m + 2 + 2m - 1$$

$$5m + 1$$

- a)  $5m + 4$   
 b)  $5m + 1$   
 c)  $6m + 8$   
 d)  $6m - 8$

Evaluate the expression:

$$6^{-2}$$

Solve the linear system:

$$\begin{aligned} x - y &= 4 \\ x + 2y &= 19 \end{aligned}$$

- a) -36      b)  $\frac{1}{36}$   
 c)  $\frac{1}{12}$       d) -12

This graph shows the solution for  
 which inequality?



$$x < -3$$

- a)  $x > -3$   
 b)  $2x \leq -6$   
 c)  $-3x > 9$   
 d)  $3x \geq 9$

Write the equation in slope-  
 intercept form if  $m = \frac{1}{2}$  and  $b = 3$

$$y = \frac{1}{2}x + 3$$

- a)  $y = 2x + 3$       b)  $y = 3x + \frac{1}{2}$   
 c)  $x = \frac{1}{2}y - 3$       d)  $y = \frac{1}{2}x + 3$

Evaluate  $d + 3c^2$  when  $d = 5$  and  $c = 2$

$$5 + 3 \cdot 2^2$$

$$5 + 12$$

- a) 11  
b) 23  
c) 17  
d) 10

Solve:  
 $6c + 4 = -3c - 14$   
 $c =$

$$\begin{array}{r} +3 \quad +3 \\ \hline 9c + 4 = -14 \\ -4 \quad -4 \\ \hline 9c = -18 \\ \frac{9c}{9} = \frac{-18}{9} \end{array}$$

$$c = -2$$

- a)  $-\frac{10}{3}$   
b) -2  
c) 2  
d) 6

Find the slope of a line through  $(1, -1)$   $(5, 2)$

$$\frac{5-1}{2-1} = 4$$

- a)  $\frac{1}{5}$   
b)  $\frac{3}{4}$   
c) -6  
d)  $-\frac{4}{3}$

Simplify:  
 $6(2b - 3) - 3(2 - b)$

$$12b - 18 - 6 + 3b$$

$$9b - 24$$

- a)  $15b - 24$   
b)  $9b - 9$   
c)  $9b + 12$   
d)  $15b + 12$

Simplify the expression:

$$\frac{a^2}{ab^3} \cdot \frac{b^4}{a^3}$$

Solve the linear system:

$$\begin{array}{l} -6x + 3y = -6 \\ 2x + 6y = 30 \end{array}$$

Simplify:  
 $b^2 - 4b + 2b^2 + 7 - 5$

a)  $\frac{a^8}{a^3b^3}$

b)  $\frac{ab^8}{a^4b^3}$

c)  $\frac{b}{a^2}$

d)  $\frac{b}{a}$

- a)  $(6, 3)$   
b)  $(3, 4)$   
c)  $(2, 6)$   
d)  $(4, -3)$

- a)  $3b^2 - 4b + 2$   
b)  $2b + 2$   
c)  $-b^2 - 4b + 12$   
d)  $3b^2 - 4b + 12$

Write the equation of a line through  $(5, 3)$   $(4, 9)$ . Use point-slope form.

- a)  $y + 1 = 2(x - 4)$   
b)  $y + 4 = -6(x - 1)$   
c)  $y - 3 = -6(x - 5)$   
d)  $y = -6x + 30$

<p>Solve:  <math>3x + 4 = 19</math>  <math>x =</math>            Isolates variables by subtracting 4 from each side  <math>3x = 15</math></p>	<p>Evaluate <math>a^2 - b \div 2</math> when <math>a = 4</math> and <math>b = 6</math>            Substitutes values for variables  <math>4^2 - 6 \div 2</math>  <math>16 - 6 \div 2</math>  <math>16 - 6 = 10</math>  <math>10 \div 2</math></p>	<p>Which line on the graph is <math>y + 2x = 4</math> ?  <math>y = -2x + 4</math></p>	<p>Simplify:  <math>3(m + 2) + 2(m - 1)</math>            Distributes either term so that response includes  <math>3m + 6</math>  <u>OR</u> <math>2m - 2</math>  <u>OR</u> <math>5m</math></p>
<p>Isolates variable and divides by 3 to solve for x</p> <p>a) 8            b) 22            c) 15  <b>d) 5</b></p>	<p>Further reduces elements in the expression  <math>16 - 3</math></p> <p>a) 1            b) 5            c) 10  <b>d) 13</b></p>	<p>a) <b>Line A</b>            b) Line B            c) Line C            d) Line D</p>	<p>Distributes both terms correctly  <math>3m + 6 + 2m - 2</math>  <u>OR</u> Distributes either term correctly <u>and</u> includes <math>5m</math> or <math>+4</math> in response            a) <b><math>5m + 4</math></b>            b) <math>5m + 1</math>            c) <math>6m + 8</math>            d) <math>6m - 8</math></p>
<p>Evaluate the expression:  <math>6^{-2}</math>            Applies the negative exponent  <math>\frac{1}{6^2}</math></p>	<p>Solve the linear system:  <math>x - y = 4</math>  <math>x + 2y = 19</math>            Chooses a correct multiplier for combination (i.e., multiply 1<sup>st</sup> equation by 2 or -1 or 2<sup>nd</sup> eq. by -1)  <u>OR</u> Isolates one variable (<math>x =</math>, <math>y =</math>) for substitution</p>	<p>This graph shows the solution for which inequality?    <math>x \leq -3</math></p>	<p>Write the equation in slope-intercept form if <math>m = \frac{1}{2}</math> and <math>b = 3</math>  <math>y = mx + b</math>  <u>OR</u> an expression that includes  <math>\frac{1}{2}x</math></p>
<p>a) <math>-36</math>  <b>b) <math>\frac{1}{36}</math></b>            c) <math>\frac{1}{12}</math>            d) <math>-12</math></p>	<p>Solves correctly for 1 variable using either method <u>OR</u> follows steps to solve, but makes computational errors <u>OR</u> plugs in solution for 1 variable if using substitution            a) <math>(-1, -5)</math>            b) <math>(5, 8)</math>            c) <math>(-2, 19)</math>  <b>d) <math>(9, 5)</math></b></p>	<p>Shows evidence of understanding simplifying of inequalities by dividing answer options to isolate variables            a) <math>x &gt; -3</math>  <b>b) <math>2x \leq -6</math></b>            c) <math>-3x &gt; 9</math>            d) <math>3x \geq 9</math></p>	<p><math>\frac{1}{2}x + 3</math> (but no 'y =')            a) <math>y = 2x + 3</math>            b) <math>y = 3x + \frac{1}{2}</math>            c) <math>x = \frac{1}{2}y - 3</math>  <b>d) <math>y = \frac{1}{2}x + 3</math></b></p>

<p>Evaluate <math>d + 3c^2</math> when <math>d = 5</math> and <math>c = 2</math></p> <p>Substitutes values for variables</p> $5 + 3 \cdot 2^2$	<p>Solve:</p> $6c + 4 = -3c - 14$ $c =$ <p>Isolates variables on 1 side (+ 3c or - 6c to both sides)</p> <p>OR Isolates constants on 1 side (-4 or + 14 to both sides)</p>	<p>Find the slope of a line through (1, -1) (5, 2)</p> <p>Draws a graph to determine slope</p> <p>OR uses slope formula</p> $\frac{2 - (-1)}{5 - 1} \quad \text{or} \quad \frac{-1 - 2}{1 - 5}$	<p><sup>24</sup>Simplify:</p> $6(2b - 3) - 3(2 - b)$ <p>Distributes either term so that response includes</p> $12b - 18$ <p>OR</p> $-6 + 3b$ <p>OR</p> $15b$
<p>Further reduces elements in the expression</p> $5 + 3 \cdot 4$ $5 + 12$ <p>a) 11 b) 23 <b>c) 17</b> d) 10</p>	<p>Isolates constants <u>and</u> variables</p> <p>OR Isolates variables <u>or</u> constants <u>and</u> divides to solve for c</p> <p>a) <math>-\frac{10}{3}</math> <b>b) -2</b> c) 2 d) 6</p>	<p>Finds slope, but has negative values in numerator and denominator</p> $\frac{1}{5} \quad \text{b) } \frac{3}{4}$ <p>c) -6      d) <math>-\frac{4}{3}</math></p>	<p>Distributes both terms correctly</p> $12b - 18 - 6 + 3b$ <p>OR Distributes either term correctly <u>and</u> includes 15b or -24 in response</p> <p><b>a) 15b - 24</b> b) <math>9b - 9</math> c) <math>9b + 12</math> d) <math>15b + 12</math></p>
<p>Simplify the expression:</p> $\frac{a^2}{ab^3} \cdot \frac{b^4}{a^3}$ <p>Multiplies across to combine terms <u>OR</u> simplifies by reducing either the a or b terms</p> <p>EX: <math>\frac{a^2b^4}{a^4b^3}</math> or <math>\frac{a}{b^3} \cdot \frac{b^4}{a^3}</math></p>	<p>Solve the linear system:</p> $-6x + 3y = -6$ $2x + 6y = 30$ <p>Chooses a correct multiplier for combination (i.e., multiplies 1<sup>st</sup> equation by -2 or 2<sup>nd</sup> eq. by 3)</p> <p>OR Isolates one variable (x = , y =) for substitution</p>	<p>Simplify</p> $b^2 - 4b + 2b^2 + 7 - 5$ <p>Combines any 2 like terms (i.e., b<sup>2</sup>, constants)</p> $3b^2 \quad \text{OR} \quad 2$	<p>Write the equation of a line through (5, 3) (4, 9). Use point-slope form.</p> <p>Determines correct slope</p> <p>OR applies slope formula</p> $\frac{9 - 3}{4 - 5} \quad \text{or} \quad \frac{3 - 9}{5 - 4} \quad \text{or} \quad m = -6$
<p>Simplifies both the a and b terms, but expression is not fully reduced</p> <p>EX: <math>a \cdot \frac{b}{a^3}</math></p> <p>a) <math>\frac{a^8}{a^3b^3}</math>      b) <math>\frac{ab^8}{a^4b^3}</math></p> <p><b>c) <math>\frac{b}{a^2}</math></b>      d) <math>\frac{b}{a}</math></p>	<p>Solves correctly for 1 variable using either method <u>OR</u> follows steps to solve, but makes computational errors <u>OR</u> plugs in solution for 1 variable if using substitution</p> <p>a) (6, 3) <b>b) (3, 4)</b> c) (2, 6) d) (4, -3)</p>	<p>Combines both like terms, but makes an error in computation</p> <p>EX: <math>3b^2 - 4b + 12</math></p> <p><b>a) <math>3b^2 - 4b + 2</math></b> b) <math>2b + 2</math> c) <math>-b^2 - 4b + 12</math> d) <math>3b^2 - 4b + 12</math></p>	<p>Uses correct slope and one other aspect of point-slope formula,</p> <p>EX: <math>y - 3 = -6(x - \square)</math>  <math>y - 9 = -6(x - \square)</math>  <math>y - \square = -6(x - 4)</math>  <math>y - \square = -6(x - 5)</math>  a) <math>y + 1 = 2(x - 4)</math>  b) <math>y + 4 = -6(x - 1)</math>  <b>c) <math>y - 3 = -6(x - 5)</math></b>  d) <math>y = -6x + 30</math></p>