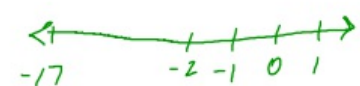
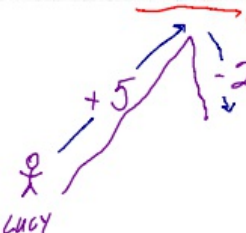
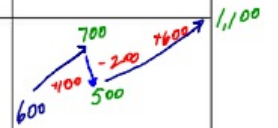


Math 7A Chapter 2 Practice Test

Be sure to show your work on each question. Attach a separate piece of paper if you need more room.

1. What is the value of $1 - (-1)$	$1 - (-1) = 1 + 1$	2
2. What is the value of $ -7 + 7$	$7 + 7 = 14$	14
3. What is the value of $ -7 - 3 $	$0 - 7$ $ -10 = 10$ $-7 - 3 = -7 + (-3) = -10$ $-7 - (-3) = -7 + 3 = -4$	10
For Exercises 4 and 5, what symbol would replace \bullet to make a true sentence.		
4. $-2 \bullet -17$	A. < B. = C. > D. + 	C
5. $-97 \bullet 79$	A. < B. = C. > D. + $-100 < 0.0000001$	A
6. Write an inequality that can be formed using -8 and 6 ?	$-8 < 6$ $6 > -8$ $5 < 8$ $8 > 5$	$-8 < 6$ $6 > -8$
7. Give a pair of integers that, when combined, equal -3 ?	$-2 + 1 = -1$ $1 + (-4) = -3$ $3 - 6 = -3$ $3 + (-6) = -3$ $-1 + (-2) = -3$ $-15 - (-12) = -3$ $-15 + 12$	
8. A stock decreases \$11 a day for 9 days. Which integer represents the total decrease?	A. $-\$99$ B. $-\$2$ C. $\$20$ D. $\$99$ $-11(9) = -99$	A
9. What is the value of the expression $-15 + 12 + (-12)$	$-15 + 0 = -15$ $-15 + 12 + (-12)$ \checkmark $-3 + (-12) = -15$	-15
10. What is the quotient of $-24 \div (-4)$		6

$$2 \times 3 = 2 \cdot 3 = 2(3) \quad a \times b = ab \quad 2 \times a = 2a \quad 2xy$$

<p>11. Evaluate the expression $(-8c)(-1)$ if $c = 8$.</p> <p>$-8(8)(-1)$ $-64(-1) = 64$</p>	<p>$(-)(+)(-)(+)(+)(+)(-)(-)(+)(-)(+)(+)(+)(+)$ (+)</p>	<p>64</p>
<p>12. Simplify $-4x(5y)$.</p> <p>$-4(5)xy$</p>		<p>$-20xy$</p>
<p>13. Evaluate the expression $12z \div y$ if $z = 8$ and $y = -3$.</p> <p>$\frac{12(8)}{-3} = \frac{96}{-3} = -32$</p>		<p>-32</p>
<p>14. Lucy hikes 5 kilometers up a mountain and then descends 2 kilometers. Which expression represents this situation?</p> <p>A. $-5 + 2$ C. $5 - 2$ B. $-5 + (-2)$ D. $2 - 5$</p>	<p>Go DOWN</p>  <p>$5 - 2$ OR $5 + (-2)$</p> <p>5 AND -2</p>	<p>C</p>
<p>15. A hiker started the day at an elevation of 600 feet. He climbed 100 feet in elevation to his first rest stop, hiked down 200 feet in elevation to his second rest stop, and climbed 600 feet in elevation to his third rest stop. What is the average elevation of his three rest stops?</p>		 <p>$\frac{700 + 500 + 1100}{3} = \frac{2300}{3} = 766.\bar{6}$</p>
<p>16. An airplane descends at a rate of 25 feet per minute. What integer represents the airplane's change in altitude after 10 minutes?</p>	<p>$-25(10)$</p>	<p>-250</p>
<p>17. Dory was at a depth of -20 feet and dove another 15 feet to visit some fish friends. How deep are Dory's fish friends?</p>	<p>$15 \downarrow + -20$ -35</p>	<p>35 FT BELOW SEA LEVEL</p>
<p>18. The daily high temperatures in Jackson Hole, Wyoming were recorded for five consecutive days. What is the mean of the data?</p> <p>$-5^\circ\text{F}, 12^\circ\text{F}, -3^\circ\text{F}, -10^\circ\text{F}, \text{ and } 14^\circ\text{F}$</p>	<p>$\frac{-5 + 12 + (-3) + (-10) + 14}{5} = \frac{8}{5} = 1\frac{3}{5}$</p> <p>MEDIAN: -10, -5, -3, 12, 14</p>	<p>$1\frac{3}{5} = 1.6$</p>
<p>19. Determine whether the following statement is true or false. If false, give a counterexample. If true, give an example.</p> <p>Multiplication of integers is associative.</p>	<p>$(2 \cdot 3) \cdot 4 = 2 \cdot (3 \cdot 4)$ $6 \cdot 4 = 2 \cdot 12$ $24 = 24$</p>	<p>TRUE ← EXAMPLE</p>

$(24 \div 12) \div 2 = 24 \div (12 \div 2)$
 $2 \div 2 \quad 24 \div 6$
 $1 \neq 4$ ← FALSE