



○ = -  
● = +

Warm Up Grade 8

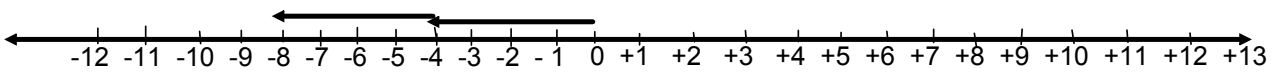
Sept. 16, 2016



1) Use rules

a)  $(-7)(-11) = (+77)$       b)  $(-56) \div (-2) = (+28)$       c)  $(+14) \times (-2) = (-28)$       d)  $(+24) \div (-4) = (-6)$

2) Write a division equation for the following number line.



Write first a multiplication  
 (# arrow) x (arrow size) = stop  
 $(+2) \times (-4) = -8$   
 $(-8) \div (-4) = (+2)$  OR  $(-8) \div (+2) = (-4)$   
box method

3) Find the product using the distributive property

$(-27) \times (-81)$  (show all work)  
 $= (-20)(-80) + (-80)(-7) + (-1)(-20) + (-1)(-7)$   
 $= (+1600) + (+560) + (+20) + 7$   
 $= (+2187)$

	$(-20)$	$(-7)$	
$(-80)$	$(-20)(-80)$ $+1600$	$(-80)(-7)$ $(+560)$	$-80$
$(-1)$	$(-1)(-20)$ $+20$	$(-1)(-7)$ $+7$	

$$\begin{array}{r}
 +1600 \\
 +560 \\
 +20 \\
 +7 \\
 \hline
 +2187
 \end{array}$$

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11) Rose  $3^{\circ}$  each hour for a total change of  $+12^{\circ}$ .

$$(+12) \div (+3) = (+4)$$

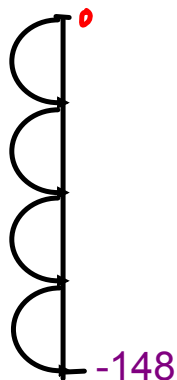
It took 4 hours for the change in temperature

12) Fell  $4^{\circ}\text{C}$  each hour for a total change of  $-20^{\circ}\text{C}$ .

$$(-20) \div (-4) = (+5)$$

It took 5 hours for the temperature change

13)



Made 4 identical plunges in a row to a final depth of 148 below surface.

$$(-148) \div (+4) = (-37)$$

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$$14) (+45) \div (-5) = (-9)$$



$$(-9) \times -5 = +45$$

Ted returned 5 books to the library and received \$45 dollars back. How much had each book cost?

$$15) (-12) \div (+6) = -2$$

The temperature dropped for 6 hours for a total change of  $-12^{\circ}\text{C}$ . How much did it drop each hour?

$$16) 6 \text{ cm to the left each minute } (-6)$$

$$a) (-36) \div (-6) = (+6)$$

Takes 6 minutes for the snail to reach -36

$$b) 6 \text{ cm to the left each minute } (-6)$$

$$(+18) \div (-6) = (-3)$$

3 minutes ago the snail was at +18

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#1 a)

$$a) (+9) \times (+10) = +90$$

$$b) (+6) \times (-11) = -66$$

$$c) (+96) \times (-16) = -1536$$

$$d) (+39) \div (+3) = +13$$

$$e) (-8) \times (+6) = -48$$

$$f) -36 \div +9 = -4$$

$$g) (-44) \div (-4) = +11$$

$$h) (-5) \times (-1) = +5$$

## Class/Homework 8

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#1, #2, #6, #7, #8, #9a, #11

MODEL ONLY 1A THEN USE RULES FOR REST PART IN # 1

$$( ) \times ( ) = \underline{\hspace{2cm}}$$