Warm Up Grade 8

Sept. 12 ,2018

○ = –
● = +

1) Use rules

a) (-7) (-11)   b) (-56)÷(-2)   c) (+14) x (-2)   d) (+24)÷(-4)

a) same $+77$

b) Same $+28$

c) different -28

d) diff -6

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

$$-12\ -11\ -10\ -9\ -8\ -7\ -6\ -5\ -4\ -3\ -2\ -1\ \ 0\ +1\ +2\ +3\ +4\ +5\ +6\ +7\ +8\ +9\ +10\ +11\ +12\ +13$$

Total

$(-8) \div (-4) = +2$ # of arrow

or

$(-8) \div (+2) = -4$ arrow size
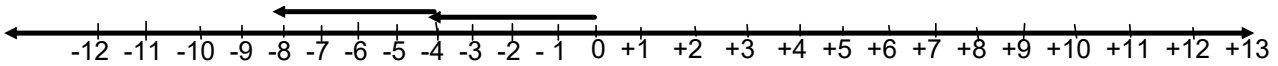
2 arrow of size (-4)"

$(2) \times (-4) = -8$

or

$(-4) \times (2) = -8$

3) Find the product using the distributive property

box method

(-25) x (-31) $= + 775$ (show all work)

Same

	20	5
30	20×30 =600	30×5 = 150
1	1×20 = 20	1×5 = 5

600
150
20
5.
———
775

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11) Rose 3° each hour for a total change of +12°.

$(+12) \div (+3) = (+4)$
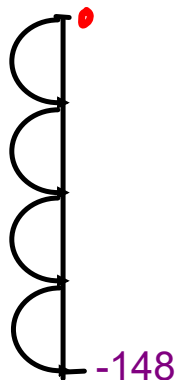
It took 4 hours for the change in temperature

12) Fell 4°C each hour for a total change of -20°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.

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

-148

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14) (+45) ÷ (-5) = (-9)

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

15) (-12) ÷(+6) = -2

> The temperature dropped for 6 hours for a total change of -12°C. How much did it drop each hour?

16) 6 cm to the left each minute   (-6)

a)   (-36) ÷ (-6) = (+6)

> Takes 6 minutes for the snail to reach -36

b) 6 cm to the left each minute   (-6)

   (+18) ÷ (-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) $(+96) \times (-16) = -6$

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

Page 83   1a → tiles
1b → tiles
1c d → rules

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

Rules

MODEL ONLY   THEN USE RULES FOR REST PART IN # 1

Quiz Friday

1a
1b   } Model tiles

1c
1d   } Rules