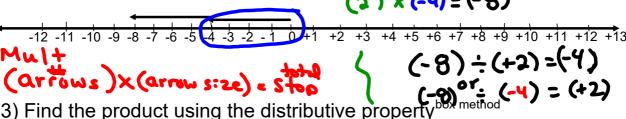
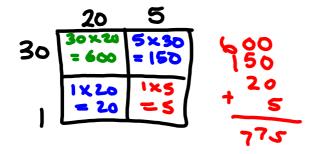


2) Write a division equation for the following number line.



3) Find the product using the distributive property



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homework solutions

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

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

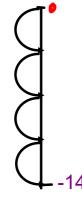
It took 4 hours for the change in temperature

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.

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

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

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°C. How much did it drop each hour?

- 16) 6 cm to the left each minute (-6)
- a) $(-36) \div (-6) = (+6)$

Takes 6 minutes for the snail to reach -36

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

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

3 minutes ago the snail was at +18

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

review

With word problems

When given a number and it is repeated and asked to find a total then () x () = ()

When given a number and it shared or group and given a total then (__) ÷ (__) = (__)

For modelling

- i) Tile multiplication
 Only use zero pairs when (-) x # since it means remove groups of #
- ii) Number line multiplication
 Only use (+) x (#) = (Total stop).....start at zero and
 this is jump size with direction
 # of jumps

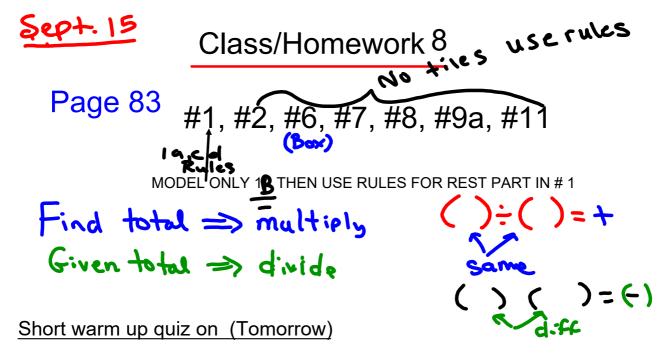
$$Ex) (+2) x (-4) =$$

2 jumps of size -4

To use a number line for division always think of the reverse of multiplication (The rewrite into division)

or

(Total length) ÷ (arrow size) = # of arrows



x and ÷ rules

Number line x and ÷ (Write the equation for a given number line)

Box Method