4.NBT.6 Division: Using Models

I can find use models to solve 2by1 digit division problems.



The digit that divides the dividend



dividend

The quantity divided

quotient

The answer when dividing

remainder

The amount left over, after a whole number has been divided equally

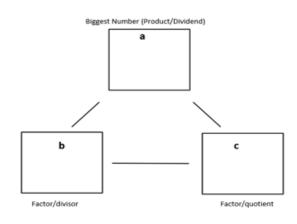


$$12 \div 5 = 2_{r2}$$

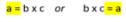
MATH MOUNTAINS

- Multiplication and Division are opposite operations. You can use one operation to help you check the answer of another!
- This relationship is true no matter how big the numbers are!
- Let's try it:

Think of three numbers that you can use, to write 4 equations. Your equations need to use the <u>same</u> three numbers, when multiplying or dividing.



- -You can write 8 equations using these three numbers.
- -You can put the product/quotient at the beginning or the end of the equation.

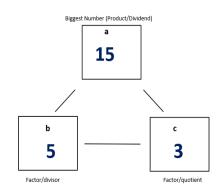


$$c = a \div b$$
 or $a \div b = c$

PRAGRICE

Let's use these three numbers:

15,5&3



You can write equations like this:

$$15 = 5 \times 3$$

$$3 \times 5 = 15$$

$$15 \div 5 = 3$$

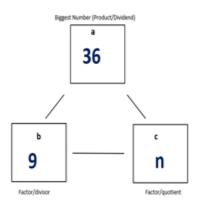
$$3 = 15 \div 5$$

$$15 \div 3 = 5$$

$$5 = 15 \div 3$$

Use the two numbers and the "unknown" to write equations.

n

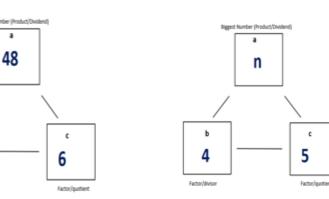


n = 4

 $n = 36 \div 9$ or $36 \div 9 = n$

 $9 \times n = 36$ *or*

 $n \times 9 = 36$



ARRAYS TO DIVIDE

What division calculation does this array describe?



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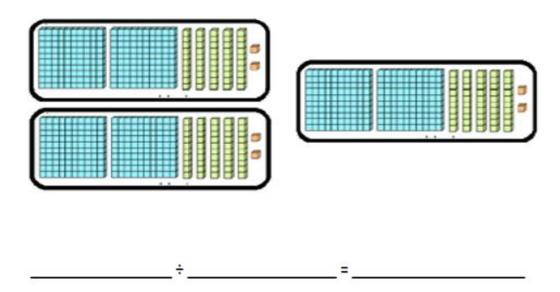


What division calculation does this array describe?

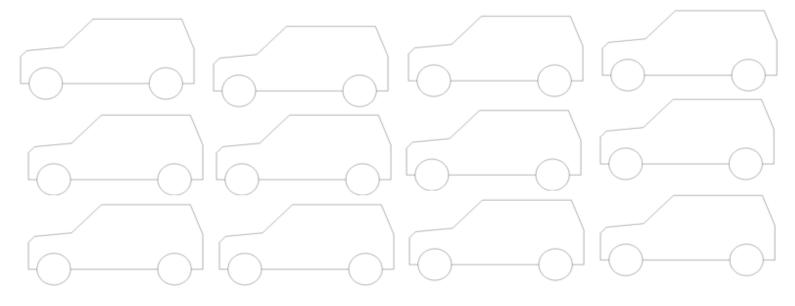


MODELS TO DIVIDE

Write the division equation that this model represents.



Ms. Ellingson wants to take her class of 28 students on a field trip. Each car can fit 4 students. How many cars will she need? Will all the cars be full?



_____÷___=___

