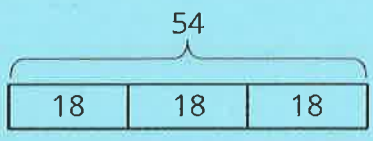
NAME Tuesday DATE 1/15 PERIOD

Unit 4, Lesson 3: Interpreting Division Situations

1. Write a multiplication equation and a division equation that this diagram could represent.

$54 \div 18 = 3$
$54 \div 3 = 18$



$3 \times 18 = 54$
$18 \times 3 = 54$
$54 \times \frac{1}{3} = 18$

2. Mai has $36 to spend on movie tickets. Each movie ticket costs $4.50. How many tickets can she buy?

a. Write a multiplication equation and a division equation to represent this situation.

$4.50 \times ? = 36$ (each, how many, total)
$36 \div 4.50 = ?$ (total, each, how many)

b. Find the answer. Draw a diagram, if needed.

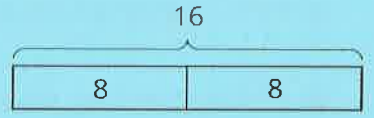
$\frac{36}{4.50} = \$8$

c. Use the multiplication equation to check your answer.

is $4.50 \times \$8 = 36$ yes

3. Kiran said that this diagram can show the solution to $16 \div 8 = ?$ or $16 \div 2 = ?$, depending on how we think about the equations and the "?".

Explain or show how Kiran is correct. $16 \div 2 = 8$ in each group (groups)
$16 \div 8$ in each group $= 2$ groups



4. Write a sentence describing a situation that could be represented by the equation $4 \div 1\frac{1}{3} = ?$. (from Unit 4, Lesson 2)

4 cups of flour divided by 1 1/3 cups per batch would tell me how many batches I can make.

5. Noah said, "When you divide a number by a second number, the result will always be smaller than the first number."

Jada said, "I think the result could be larger or smaller, depending on the numbers."

Do you agree with Noah or Jada? Show or explain your reasoning.

$10 \div 5 = 2$ smaller $10 \div \frac{1}{2} = 20$ bigger

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(from Unit 4, Lesson 1)

6. Mini muffins cost $3.00 per dozen.

   - Andre says, "I have $2.00, so I can afford 8 muffins." yes
   - Elena says, "I want to get 16 muffins, so I'll need to pay $4.00." yes

   Do you agree with either, both, or neither of them? Explain your reasoning.

muffin	$
12	$3
1	.25
16	$4.00
4	$1
8	$2

÷12 ÷3 ×16 ×16 ÷3 ×2 ×2

(from Unit 3, Lesson 7)

7. A family has a monthly budget of $2,400. How much money is spent on each category?

   a. 44% is spent on housing. 2,400 × .44 = $1,056

   b. 23% is spent on food. 2,400 × .23 = $552

   c. 6% is spent on clothing. 2,400 × .06 = $144

   d. 17% is spent on transportation. 2,400 × .17 = $408

   e. The rest is put into savings. rest is 10% 2,400 × .10 = $240

(from Unit 3, Lesson 15)

244 %
23 %
6 %
17 %
90 % so far

10 % for savings

OR

1% = $24 10% $240

a. 44 × 24 $1,056

b. 23 × 24 $552

c. 6 × 24 $144

d. 17 × 24 $408

e. 10 × 24 $240