Unit 5 Module 2 Session 4

Problems & Investigations- True or False?

Assessment- Multiplication & Division Checkpoint

Getting Ready-

- ™ T17 Multiplication & Division Checkpoint
- ™ T18 True or False?
- SB 160-161 Number Puzzles
- Colored tiles (see Preparation)
- Red linear pieces (see Preparation)
- Student Math Journals

Vocabulary

Divide

Equation

Multiply

Equal sign

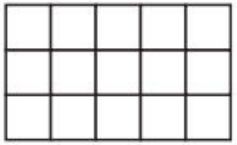
Expression

- Interpret quotients of whole numbers and write story problems
- Interpret products of whole numbers and write story problems
- Solve for the unknown in a multiplication or division equation involving 3 whole numbers
- Solve division problems by finding an unknown factor
- Fluently multiply and divide with products and dividends to 100 using strategies
- Solve two-step story problems using multiplication and division

PASS OUT CHECKPOINT

Multiplication & Division Checkpoint

1 Write two multiplication and two division equations (a fact family) to describe this array.



____ × ____ = ____ ____ ÷ ____ = ____

____ × ____ = ____ ____ ÷ ____ = ____

2 Multiply.

3	4	10	6	8	7	9
× 7	× 5	× 10	× 6	× 3	× 7	× 2
5	3	7	4	9	0	1
× 5	× 6	× 10	× 6	× 3	× 6	× 8

3 Divide. (Hint: Use the multiplication problems above to help.)

$18 \div 3 =$ ____ $21 \div 3 =$ ____ $20 \div 4 =$ ____ $27 \div 3 =$ ____

$36 \div 6 =$ ____ $25 \div 5 =$ ____ $24 \div 3 =$ ____ $18 \div 2 =$ ____

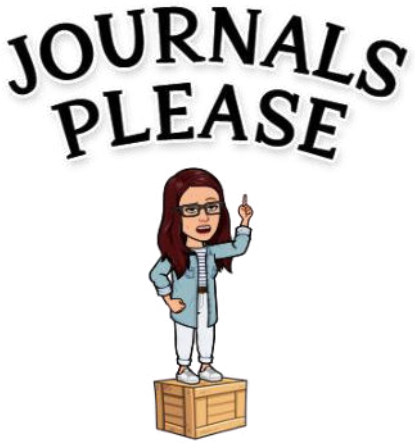
4 Fill in the answer to both equations. Then write a story problem to match each one.

a $4 \times 7 =$ ____

My Story Problem

b $16 \div 4 =$ ____

My Story Problem



True or False?
Today's Date

- Copy each of the equations into your journal as your teacher shows them to you.
- Write a T beside the equation if you think it's true and an F if you think it's false.
- If there are any missing numbers, fill them in to make the equation true.

1 $10 = 2 \times 5$ True or False?

2 $3 \times 4 = 4 \times 3$ True or False?

3 $4 \times 5 = 10 \times 3$ True or False?

4 $2 \times 6 = 3 \times 4$ True or False?

5 $15 \div 3 = 2 \times 4$ True or False?

6 $2 \times 2 = 10 \div 2$ True or False?

7 $10 \div 2 = 15 \div 3$ True or False?

8 $2 + 4 = 6 + 9 = 15$ True or False?

9 $14 = 2 \times$

10 $12 \div 2 = 2 \times$ ☐

11 $1 \times \square = 14 \div 2$

12 $2 \times \square = \square$

- Write a T beside the equation if you think it's true and an F if you think it's false.
- If there are any missing numbers, fill them in to make the equation true.

1 $10 = 2 \times 5$ True or False?

2 $3 \times 4 = 4 \times 3$ True or False?

3 $4 \times 5 = 10 \times 3$ True or False?

4 $2 \times 6 = 3 \times 4$ True or False?

5 $15 \div 3 = 2 \times 4$ True or False?

6 $2 \times 2 = 10 \div 2$ True or False?

7 $10 \div 2 = 15 \div 3$ True or False?

8 $2 + 4 = 6 + 9 = 15$ True or False?

The expressions joined by an equal sign must be equal. This equation is false because 15 and 6 + 9 are not equal to 2 + 4. If you wanted to add 2 + 4 + 9, you could do it like

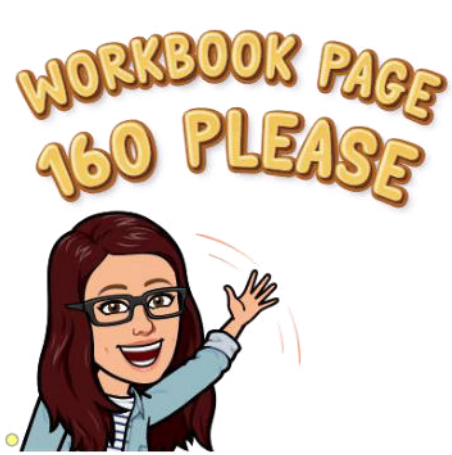
9 $14 = 2 \times 7$

10 $12 \div 2 = 2 \times 3$

11 $1 \times 7 = 14 \div 2$

12 $2 \times 8 = 16$

You can use lots of different numbers. The second number has to be 2 times as big as the first number you fill in.



Number Puzzles page 1 of 2

1 Read each of the equations below. If it is true, circle the T. If it is false, circle the F.

a $18 = 9 \times 2$ T F

b $2 \times 4 = 4 \times 2$ T F

c $5 = 10 \div 2$ T F

d $2 \times 3 = 6 \times 5 = 30$ T F

e $6 \times 10 = 12$ T F

f $2 \times 8 = 4 \times 4$ T F

g $3 \times 2 = 12 \div 2$ T F

h $100 \div 2 = 25 \times 2$ T F

2 Fill in the missing numbers to make each equation true.

a $16 = 4 \times$ ☐

b $2 \times$ ☐ $= 4 \times 5$

c ☐ $\times 10 = 30$

d $12 \div 2 =$ ☐

e $20 \div$ ☐ $= 4$

f ☐ $\div 5 = 5$

g $25 \div 1 =$ ☐

h $60 =$ ☐ $\times 6$

i $12 \div 2 = 6 \times$ ☐

j $18 \div 2 =$ ☐ $\times 3$

k $10 \times 10 = 50 \times$ ☐

l $10 \times 10 = 25 \times$ ☐

3 Sara has 3 bags of shells. Each bag has 10 shells in it. Her brother Max has 5 bags of shells. Each bag has 6 shells in it. Do Sara and Max have the same number of shells? Use labeled sketches, numbers, or words to prove your answer.

4 Briana and Bryan split 10 dollars evenly. Jody, Jamal, and Jasmin split 12 dollars evenly. Did all the kids get the same amount of money? Use labeled sketches, numbers, or words to prove your answer.

5 Write a word problem to go with each of the equations below.

a $3 \times 5 = 15$

b $20 \div 4 = 5$

Work Places

4A Tic-Tac-Tock

4B Measurement Scavenger Hunt

4C Target One Thousand

4D Hexagon Spin & Fill

5A Solving Game Store Problems

5B Scout them Out

Daily Practice

SB 162 Fact Family Triangles