

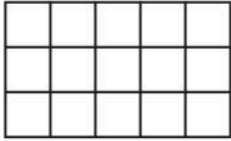
NAME _____

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Multiplication & Division Checkpoint

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



$_____ \times _____ = _____$

$_____ \div _____ = _____$

$_____ \times _____ = _____$

$_____ \div _____ = _____$

- 2** Multiply.

$$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

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

$18 \div 3 = \underline{\quad}$

$21 \div 3 = \underline{\quad}$

$20 \div 4 = \underline{\quad}$

$27 \div 3 = \underline{\quad}$

$36 \div 6 = \underline{\quad}$

$25 \div 5 = \underline{\quad}$

$24 \div 3 = \underline{\quad}$

$18 \div 2 = \underline{\quad}$

- 4** Fill in the answer to both equations. Then choose a story problem that matches.

a $4 \times 7 = \underline{\quad}$

My Story Problem

Jenny is 4 times as old as Ryan. Ryan is 7 years old. How old is Jenny?

Todd had 4 marbles. He got 7 more. How many marbles does he have all together?

Nick had 7 toy cars. He lost 4. How many are left?

Nathan had 7 cookies. He split them between 4 people. How many did each person get?

b $16 \div 4 = \underline{\quad}$

My Story Problem

Jenny is 4 times as old as Ryan. Ryan is 16 years old. How old is Jenny?

Todd had 16 marbles. He got 4 more. How many marbles does he have all together?

Nathan had 16 baseball cards. He put them in 4 rows. How many cards were in each row?

Nick had 16 toy cars. He lost 4. How many are left?

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Division Checkpoint

1 Solve each story problem. Use numbers, labeled sketches, or words to show your thinking, and write the answer. Then write an equation to match the problem.

- a** The Bead Store just got lots of new beads. Addy is going to take 24 of the new glass beads and put them into bags. If she puts 8 beads in each bag, how many bags does she need?

Work:

Answer: Addy needs _____ bags.

Equation: _____

- b** Tim comes into the Bead Store and buys 36 of the new beads. He is planning to use them to make 4 bracelets. If he uses all the beads and divides them evenly, how many will he have for each bracelet?

Work:

Answer: Tim will have _____ beads for each bracelet.

Equation: _____

- 2** Anna is doing her homework. She has to solve some division problems. Her big sister says that if Anna thinks of the multiplication facts she knows, it will make the work easier. For each of the division problems below, circle the multiplication fact that would help Anna the most. Then write the answer to the division problem.

$24 \div 4 = \underline{\quad}$	$3 \times 8 = 24$	$4 \times 6 = 24$	$2 \times 12 = 24$
$30 \div 6 = \underline{\quad}$	$3 \times 10 = 30$	$2 \times 15 = 30$	$6 \times 5 = 30$
$36 \div 4 = \underline{\quad}$	$4 \times 9 = 36$	$6 \times 6 = 36$	$4 \times 8 = 32$
$28 \div 7 = \underline{\quad}$	$7 \times 6 = 42$	$7 \times 4 = 28$	$2 \times 14 = 28$
$35 \div 5 = \underline{\quad}$	$5 \times 5 = 25$	$1 \times 35 = 35$	$5 \times 7 = 35$

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**Unit 5 Post-Assessment** page 1 of 4

- 1** Draw a line from each problem on the left to the matching equation on the right. Then write the correct answer.

a A T-shirt costs \$9 at the mall. A pair of shoes costs 5 times as much as a T-shirt. How much does a pair of shoes cost? $8 \times 5 = \underline{\hspace{2cm}}$

b There are 40 chairs in the gym. Mr. Brown wants to set them up in rows of 8. How many rows can he make? $9 \times 5 = \underline{\hspace{2cm}}$

c Jon has 8 pieces of string. Each piece of string is 5 feet long. How many feet of string does Jon have in all? $45 \div 5 = \underline{\hspace{2cm}}$

d Maddie picked 45 plums and divided them evenly into 5 bags for her friends. How many plums did she put in each bag? $40 \div 8 = \underline{\hspace{2cm}}$

- 2** Fill in the answer to both equations. Then choose a story problem that matches.

a $9 \times 4 = \underline{\hspace{2cm}}$

My Story Problem:

Jenny is 4 times as old as Ryan. Ryan is 9 years old. How old is Jenny?

Todd had 4 marbles. He got 9 more. How many marbles does he have all together?

Nick had 9 toy cars. He lost 4. How many are left?

Nathan had 9 cookies. He split them between 4 people. How many did each person get?

b $14 \div 2 = \underline{\hspace{2cm}}$

My Story Problem:

Jenny is 2 times as old as Ryan. Ryan is 14 years old. How old is Jenny?

Todd had 14 marbles. He got 2 more. How many marbles does he have all together?

Nathan had 14 baseball cards. He put them in 2 rows. How many cards were in each row?

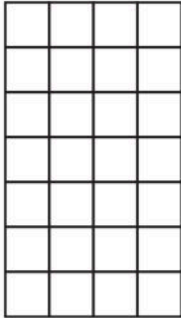
Nick had 14 toy cars. He lost 2. How many are left?

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- 3**
- Write 2 multiplication and 2 division equations (a fact family) to describe this array.



$$\begin{array}{l} \underline{\quad} \times \underline{\quad} = \underline{\quad} \quad \underline{\quad} \div \underline{\quad} = \underline{\quad} \\ \underline{\quad} \times \underline{\quad} = \underline{\quad} \quad \underline{\quad} \div \underline{\quad} = \underline{\quad} \end{array}$$

- 4**
- Solve each story problem. Use numbers, labeled sketches, or words to show your thinking, and write the answer. Then write an equation to match the problem.

- a**
- The Game Store just got
- 60 new videogames**
- . Devon is putting the games into
- stacks of 10**
- . How many stacks can he make if he uses all 60 games?

Work:

Devon can make _____ stacks.

Equation: _____

- b**
- The Game Store has
- 7 stacks of board games**
- for little kids. If there are
- 5 board games in each stack**
- , how many board games is that in all?

Work:

The Game Shop has _____ board games for little kids.

Equation: _____

(continued on next page)

Use your keyword chart to determine which operation to use to solve these problems.

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5 The Game Store got **6 cartons of jigsaw puzzles.** There were **6 puzzles in each carton.** Devon unpacked all the puzzles and arranged them into **4 equal stacks.** How many puzzles in each stack?

a Choose the equation that could help you solve this problem.

$(6 \times 6) \times 4 = p$

$(6 + 6) \div 4 = p$

$(6 \times 6) \div 4 = p$

$6 + 6 - 4 = p$

b Solve the problem. Show all your work. **Use the equation you chose above.**

Answer: There were _____ puzzles in each stack.

6 Fill in the missing number to solve each equation.

$30 \div \underline{\hspace{1cm}} = 10$

$35 = 5 \times \underline{\hspace{1cm}}$

$9 = \underline{\hspace{1cm}} \div 4$

$\underline{\hspace{1cm}} \times 8 = 40$

7 Jeff has to solve this story problem:

*The librarian just got **28 new books.** She is planning to put **7 of the new books on each shelf in her book rack.** How many shelves of new books can she make?*

a Jeff says he can solve the problem by thinking, “7 times *what number* equals 28?” Do you agree with Jeff? Why or why not?

Choose one:

No because the problem suggests division

Yes because that is how a division problem is solved

No because you need to do 28×7

b Write and solve a division equation to match Jeff’s problem.

_____ \div _____ = _____
label

(continued on next page)

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Count the number of tiles it takes to fill the rectangle

8 Use colored tiles to find the area of this rectangle.



The area of this rectangle is _____ square units.

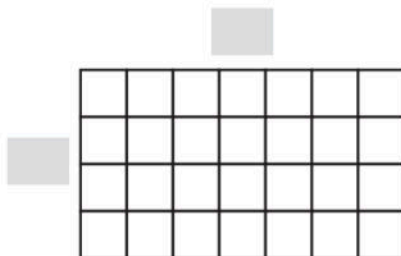
9 Label each rectangle with its dimensions and area. Then write a multiplication equation to show how you found the area of the rectangle.

Length x Width =
Area

Or

Top x Side =
Area

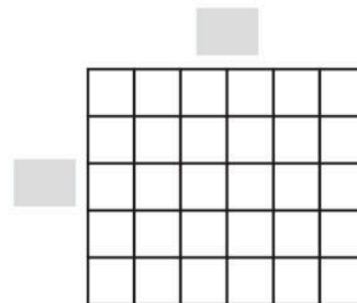
a



Area = _____ square units

Equation:

b



Area = _____ square units

Equation:

10 Mark **all** the statements about area that are true. **There are 3**

- If you want to find out how many cups something holds, you measure its area.
- It would make sense to use square inches to find the area of a piece of copy paper, and square yards to find the area of a football field.
- You can find the area of a rectangle by multiplying its length by its width.
- Ms. Kelly's whiteboard is 4 feet wide and 8 feet long. Its area is 32 square feet.