

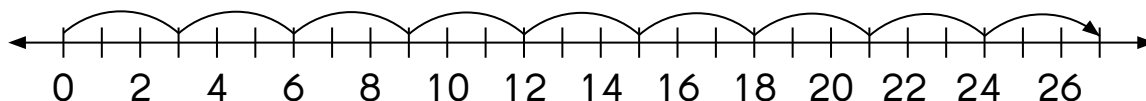
CHAPTER  
6

# Multiplication Tables of 6, 7, 8, and 9

## Lesson 6.1 Multiplication Properties

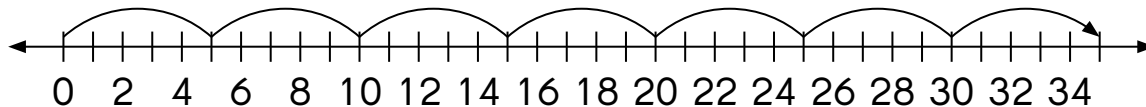
Look at each number line. Write the multiplication fact.

1.



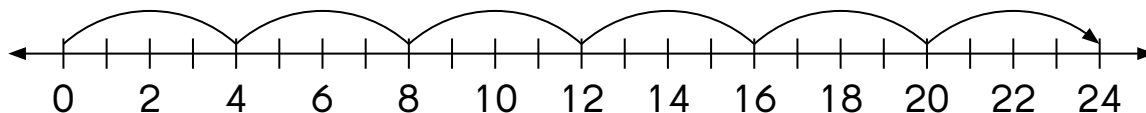
$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

2.



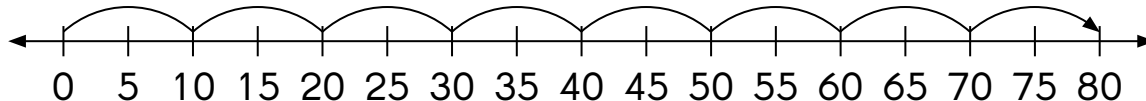
$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

3.



$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

4.



$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Multiply. Use skip counting to help you.**

5.  $8 \times 2 =$  \_\_\_\_\_

6.  $4 \times 4 =$  \_\_\_\_\_

7.  $5 \times 0 =$  \_\_\_\_\_

8.  $6 \times 3 =$  \_\_\_\_\_

9.  $7 \times 4 =$  \_\_\_\_\_

10.  $8 \times 5 =$  \_\_\_\_\_

11.  $6 \times 10 =$  \_\_\_\_\_

12.  $7 \times 3 =$  \_\_\_\_\_

**Fill in the missing numbers.**

13.  $4 \times$  \_\_\_\_\_  $=$  \_\_\_\_\_  $\times 4 = 20$

14. \_\_\_\_\_  $\times 3 = 3 \times$  \_\_\_\_\_  $= 24$

15.  $10 \times$  \_\_\_\_\_  $=$  \_\_\_\_\_  $\times 10 = 90$

16. \_\_\_\_\_  $\times 5 = 5 \times$  \_\_\_\_\_  $= 45$

17. \_\_\_\_\_  $\times 2 = 16$

18. \_\_\_\_\_  $\times 3 = 27$

19.  $4 \times$  \_\_\_\_\_  $= 36$

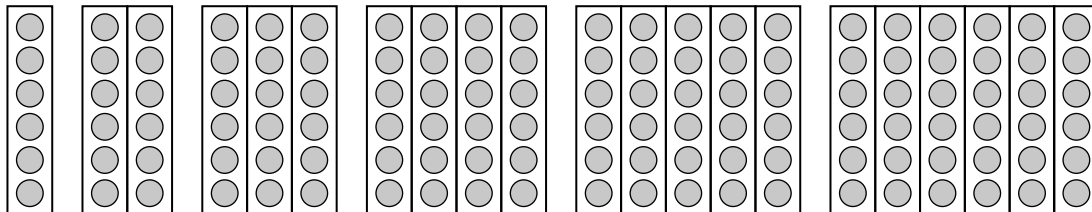
20.  $5 \times$  \_\_\_\_\_  $= 25$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

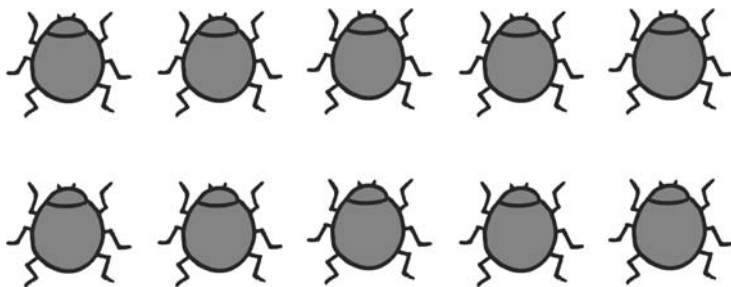
## Lesson 6.2 Multiply by 6

Look at each array model. Then fill in the blanks.



1. a. 6 12 \_\_\_\_\_ 24 \_\_\_\_\_ 36  
b. 30 36 42 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Fill in the missing numbers.



Each beetle has six legs.



2. a.  $2 \times 6 =$  \_\_\_\_\_  
b.  $4 \times 6 =$  \_\_\_\_\_  
c.  $6 \times 6 =$  \_\_\_\_\_  
d.  $8 \times 6 =$  \_\_\_\_\_  
e. \_\_\_\_\_  $\times 6 = 18$   
f. \_\_\_\_\_  $\times 6 = 42$   
g.  $9 \times 6 = 6 \times$  \_\_\_\_\_  $=$  \_\_\_\_\_  
h.  $10 \times$  \_\_\_\_\_  $=$  \_\_\_\_\_  $\times 10 = 60$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Multiply. Use related multiplication facts to help you.**

**3. a.**  $6 + 6 + 6 + 6 + 6 = \underline{\hspace{2cm}} \times 6$

**b.**

○ ○ ○ ○ ○ ○	}	$5 \times 6 = 30$	}	$7 \times 6 = \underline{\hspace{2cm}}$
○ ○ ○ ○ ○ ○				
○ ○ ○ ○ ○ ○				
○ ○ ○ ○ ○ ○				
○ ○ ○ ○ ○ ○				
● ● ● ● ● ●	}	$2 \times 6 = 12$		
● ● ● ● ● ●				

$7 \times 6 = 5 \times 6 + \underline{\hspace{2cm}} \times 6$

**c.**  $12 = \underline{\hspace{2cm}} \times 6$

$24 = \underline{\hspace{2cm}} \times 6$

$12 + 24 = \underline{\hspace{2cm}} \times 6 + \underline{\hspace{2cm}} \times 6$

$= \underline{\hspace{2cm}} \times 6$

$= \underline{\hspace{2cm}}$

**d.**  $18 = \underline{\hspace{2cm}} \times 6$

$36 = \underline{\hspace{2cm}} \times 6$

$54 = \underline{\hspace{2cm}} \times 6 + 6 \times 6$

Name: \_\_\_\_\_

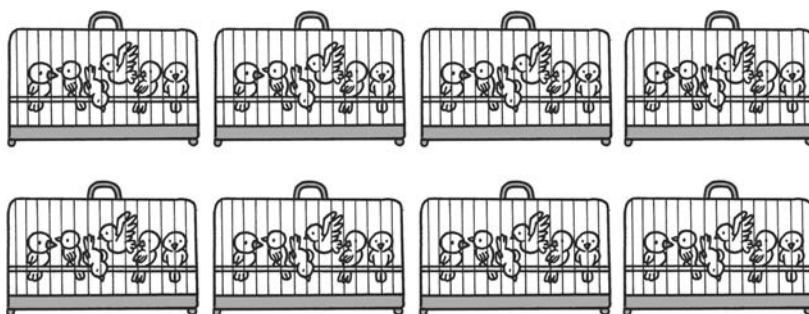
Date: \_\_\_\_\_

**Solve. Show your work.**

- 4.** Pencils are given to 4 children.  
Each child has 6 pencils.  
How many pencils do the children have in all?



- 5.** A pet store owner keeps 6 birds in each cage.  
How many birds does he keep in 8 cages?



Name: \_\_\_\_\_

Date: \_\_\_\_\_

6. Jason makes 6 bookmarks in an hour.  
How many bookmarks can he make in 7 hours?



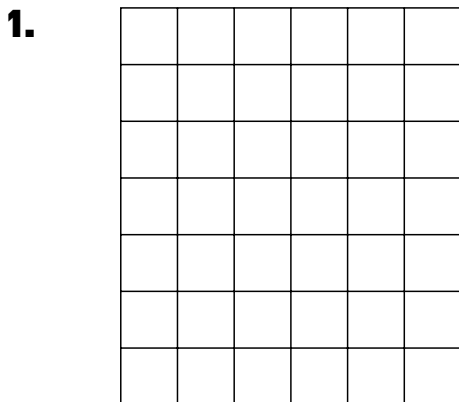
7. Siti has 9 dolls.  
Each doll costs \$6.  
How much do the 9 dolls cost in all?

Name: \_\_\_\_\_

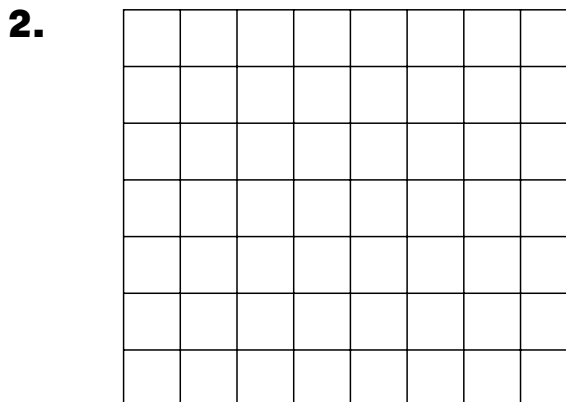
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## Lesson 6.3 Multiply by 7

Look at each area model. Write the multiplication fact.

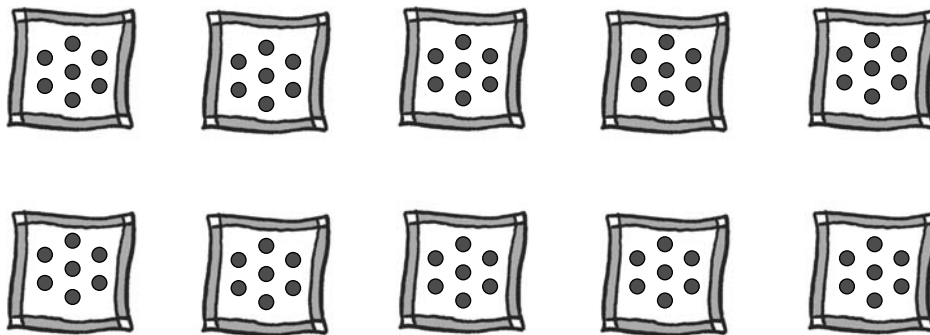


\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

Fill in the missing numbers.



3.  $2 \times 7 =$  \_\_\_\_\_

4.  $4 \times 7 =$  \_\_\_\_\_

5.  $5 \times 7 =$  \_\_\_\_\_

6.  $8 \times 7 =$  \_\_\_\_\_

7.  $7 \times$  \_\_\_\_\_  $= 49$

8. \_\_\_\_\_  $\times 7 = 63$

9. \_\_\_\_\_  $\times 7 = 7 \times$  \_\_\_\_\_  $= 21$

10. \_\_\_\_\_  $\times 7 = 7 \times$  \_\_\_\_\_  $= 0$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Fill in the missing numbers.**

11.  $8 \times 7 = 4 \times 7 + \underline{\hspace{2cm}} \times 7$

12.  $6 \times 7 = 3 \times 7 + \underline{\hspace{2cm}} \times 7$

**Solve. Show your work.**

13. For a relay race, teams of 7 children each are formed.  
How many children are there in 6 teams?

14. When 36 is added to a number, the answer is the same as  
multiplying the number by 7.  
What is the number?

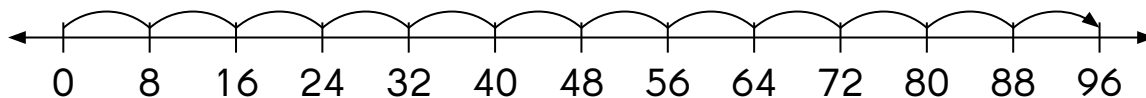


Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lesson 6.4 Multiply by 8

Complete each skip-counting pattern.

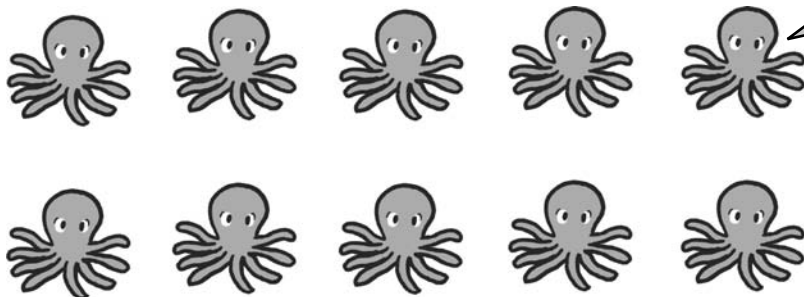


1. 8 16 \_\_\_\_\_ 48

2. 40 \_\_\_\_\_ 72 \_\_\_\_\_

Fill in the missing numbers.

3.



I have 8 tentacles.

×	1	3	5	9	8	7	4	6	1	0
8	8	24								

Fill in the missing numbers.

4.  $2 \times 8 =$  \_\_\_\_\_  $\times 2 =$  \_\_\_\_\_

5.  $8 + 8 + 8 + 8 + 24 =$  \_\_\_\_\_  $\times 8$

6.  $40 =$  \_\_\_\_\_  $\times 8 = 8 \times$  \_\_\_\_\_

7.  $40 + 40 =$  \_\_\_\_\_  $\times 8 +$  \_\_\_\_\_  $\times 8$   
 $=$  \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Solve. Show your work.**

8. Keenan spends \$8 a day.  
How much does he spend in a week?

Monday	\$8
Tuesday	\$8
Wednesday	\$8
Thursday	\$8
Friday	\$8
Saturday	\$8
Sunday	\$8

9. Mrs. Li has 9 grandchildren.  
She gives each grandchild 8 storybooks.  
How many storybooks does Mrs. Li give altogether?

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lesson 6.5 Multiply by 9

Fill in the missing numbers.

1.



×	1	3	5	9	8	7	4	6	10
9	9	27							

**Multiply. Use related multiplication facts to help you.**

2.  $9 \times 9 = 5$  groups of 9 + \_\_\_\_\_ groups of 9  
= \_\_\_\_\_ + \_\_\_\_\_  
= \_\_\_\_\_

**OR**

$9 \times 9 = 10$  groups of 9 – \_\_\_\_\_ group of 9  
= \_\_\_\_\_ – \_\_\_\_\_  
= \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Solve. Show your work.**

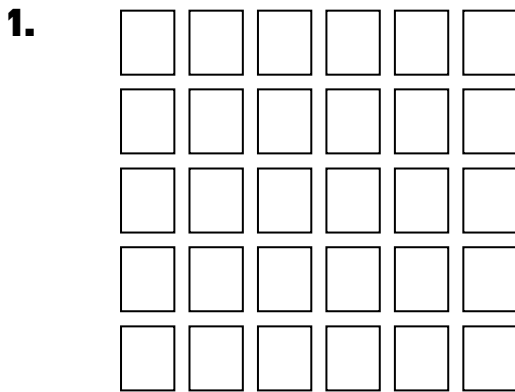
- 3.** Pam buys 9 cartons of milk.  
She pays \$4 for each carton.  
How much does Pam pay in all?
- 4.** When 56 is added to a number, the answer is the same as  
multiplying the number by 9.  
What is the number?

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lesson 6.6 Division: Finding the Number of Items in Each Group

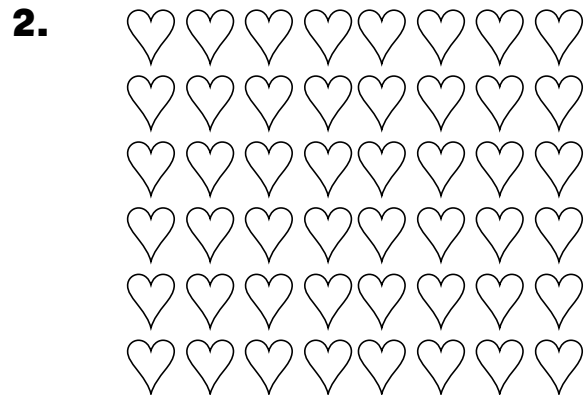
Circle to make equal groups.  
Then fill in the missing numbers.



$$30 \div 5 = \underline{\hspace{2cm}}$$

Each group has

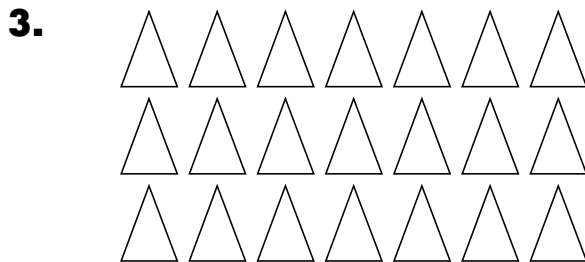
\_\_\_\_\_ squares.



$$48 \div 6 = \underline{\hspace{2cm}}$$

Each group has

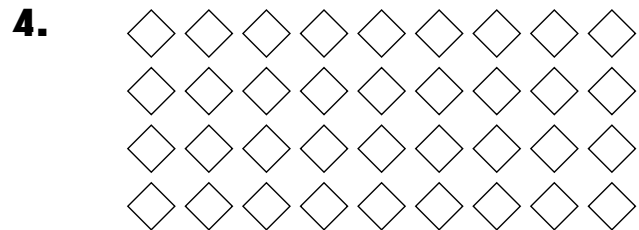
\_\_\_\_\_ hearts.



$$21 \div 3 = \underline{\hspace{2cm}}$$

Each group has

\_\_\_\_\_ triangles.



$$36 \div 4 = \underline{\hspace{2cm}}$$

Each group has

\_\_\_\_\_ diamonds.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Fill in the missing numbers.**

5.  $7 \times \underline{\hspace{2cm}} = 56$       So,  $56 \div 7 = \underline{\hspace{2cm}}$

6.  $8 \times \underline{\hspace{2cm}} = 72$       So,  $72 \div 8 = \underline{\hspace{2cm}}$

7.  $9 \times \underline{\hspace{2cm}} = 54$       So,  $54 \div 9 = \underline{\hspace{2cm}}$

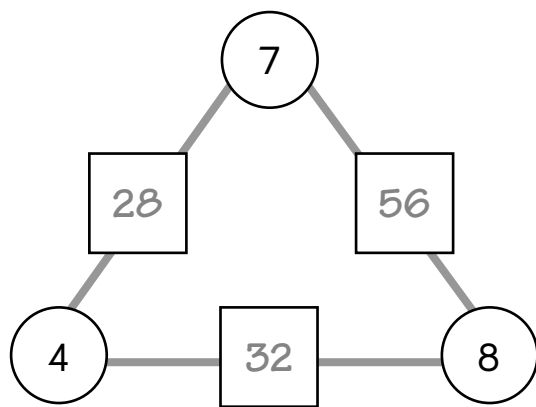
8.  $6 \times \underline{\hspace{2cm}} = 42$       So,  $42 \div 6 = \underline{\hspace{2cm}}$

**Each square is the product of the circles on either side of it.**

**Fill in the missing numbers.**

**Then use each multiplication fact to write two division facts.**

*Example*

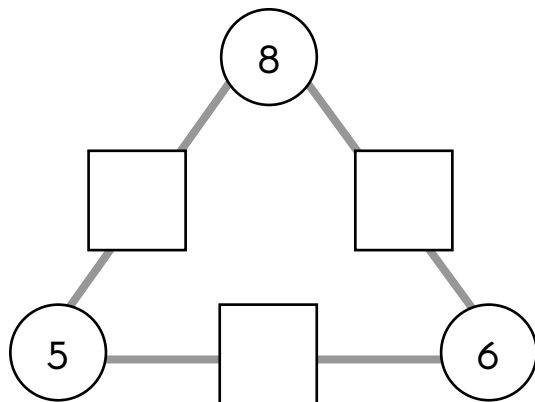


$$\begin{array}{r} \underline{4} \times \underline{7} = \underline{28} \\ \underline{28} \div \underline{4} = \underline{7} \\ \underline{28} \div \underline{7} = \underline{4} \\ \underline{8} \times \underline{7} = \underline{56} \\ \underline{56} \div \underline{7} = \underline{8} \\ \underline{56} \div \underline{8} = \underline{7} \\ \underline{4} \times \underline{8} = \underline{32} \\ \underline{32} \div \underline{4} = \underline{8} \\ \underline{32} \div \underline{8} = \underline{4} \end{array}$$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

9.



$_____ \times _____ = _____$

$_____ \div _____ = _____$

$_____ \div _____ = _____$

$_____ \times _____ = _____$

$_____ \div _____ = _____$

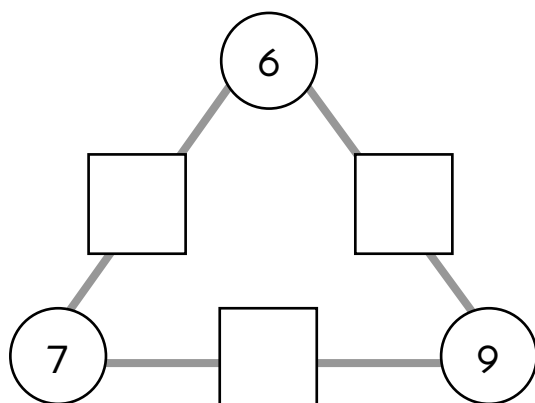
$_____ \div _____ = _____$

$_____ \times _____ = _____$

$_____ \div _____ = _____$

$_____ \div _____ = _____$

10.



$_____ \times _____ = _____$

$_____ \div _____ = _____$

$_____ \div _____ = _____$

$_____ \times _____ = _____$

$_____ \div _____ = _____$

$_____ \div _____ = _____$

$_____ \times _____ = _____$

$_____ \div _____ = _____$

$_____ \div _____ = _____$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Solve. Show your work.**

**11.** Lee puts 54 stickers equally in 6 albums.  
How many stickers are there in each album?

**12.** Mrs. Thomas buys 42 flowers.  
She puts the flowers equally into 7 vases.  
How many flowers does each vase have?



**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

- 13.** Mr. Li fills 8 pails with a total of 72 liters of water.  
Every pail has the same amount of water.  
How much water does each pail contain?

- 14.** A book has 81 pages in all.  
There are 9 chapters in the book.  
Each chapter contains the same number of pages.  
How many pages does each chapter contain?

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

- 15.** Jon shares a box of biscuits with 6 other friends.  
There are 35 biscuits in the box.  
How many biscuits does each child get?

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lesson 6.7 Division: Making Equal Groups

Fill in the missing numbers.

1. \_\_\_\_\_  $\times$  9 = 72

72  $\div$  9 = \_\_\_\_\_

2. \_\_\_\_\_  $\times$  8 = 24

24  $\div$  8 = \_\_\_\_\_

Divide.

3. 56  $\div$  7 = \_\_\_\_\_

4. 42  $\div$  6 = \_\_\_\_\_

5. 64  $\div$  8 = \_\_\_\_\_

6. 81  $\div$  9 = \_\_\_\_\_

Solve. Show your work.

7. Each boat has 7 sailors.  
There are 63 sailors altogether.  
How many boats are there?

**Name:** \_\_\_\_\_

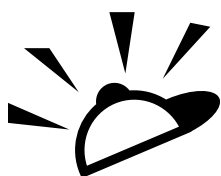
**Date:** \_\_\_\_\_

**8.** There are 48 children participating in the math competition. The children are placed in groups. Each group has 6 children. How many groups are there?

**9.** Marco has 56 markers. He keeps 8 markers in each box. How many boxes of markers does Marco have?

Name: \_\_\_\_\_

Date: \_\_\_\_\_



## Put on Your Thinking Cap!

1. Nicole thinks of two numbers.  
Both numbers are 2-digit numbers.  
Both digits are different.  
What are Nicole's numbers?

Use the clues below to help find her numbers.

a. 1<sup>st</sup> number

**Clues**

- The sum of its two digits is 10.
- The tens digit is greater than the ones digit.
- You say the number when you count by eights.
- The number is greater than half of 100 but less than  $9 \times 9$ .

Nicole's first number is \_\_\_\_\_.

b. 2<sup>nd</sup> number

**Clues**

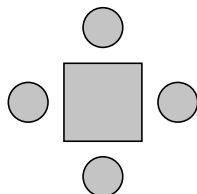
- The sum of its two digits is 6.
- The tens digit is greater than the ones digit.
- You say the number when you count by sixes.
- You also say it when you count by sevens.
- The number is less than half of 100.

Nicole's second number is \_\_\_\_\_.

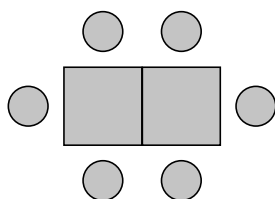
Name: \_\_\_\_\_

Date: \_\_\_\_\_

2. A square table can seat 4 children.



When Mrs. Smith places 2 square tables together, 6 children can sit around the two tables.



- a. If Mrs. Smith places 3 square tables together, how many children can sit around the tables?
  
  
  
  
  
  
  
  
  
  
- b. If she places 4 square tables together, how many children can sit around the tables?
  
  
  
  
  
  
  
  
  
  
- c. If she places 10 square tables together, how many children can sit around the tables? How did you find the answer?