

# Understanding of Multiplication Models

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

- 1** Show  $3 \times 5$  by drawing equal groups of 5.

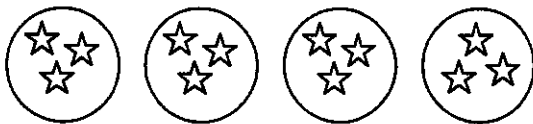
Show  $3 \times 5$  by drawing an array.

Complete the equation.  $3 \times 5 =$  \_\_\_\_\_

- 2** Write an equation that matches the array.



- 3** Write an equation that matches the picture.



- 4** Use words to describe the drawing for problem 3.

## Multiplying with 2, 5, and 10

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

**Multiply.**

1  $5 \times 2 =$  \_\_\_\_\_ 2  $2 \times 5 =$  \_\_\_\_\_ 3  $2 \times 10 =$  \_\_\_\_\_ 4  $10 \times 2 =$  \_\_\_\_\_

5  $10 \times 5 =$  \_\_\_\_\_ 6  $5 \times 10 =$  \_\_\_\_\_ 7  $6 \times 2 =$  \_\_\_\_\_ 8  $2 \times 6 =$  \_\_\_\_\_

9  $3 \times 10 =$  \_\_\_\_\_ 10  $10 \times 3 =$  \_\_\_\_\_ 11  $7 \times 2 =$  \_\_\_\_\_ 12  $2 \times 7 =$  \_\_\_\_\_

13  $4 \times 10 =$  \_\_\_\_\_ 14  $10 \times 4 =$  \_\_\_\_\_ 15  $5 \times 4 =$  \_\_\_\_\_ 16  $4 \times 5 =$  \_\_\_\_\_

17  $2 \times 2 =$  \_\_\_\_\_ 18  $5 \times 5 =$  \_\_\_\_\_ 19  $10 \times 10 =$  \_\_\_\_\_

20 What patterns do you notice in the problems? Explain.

21 Draw a model to show how you solved one of the problems.

# Multiplying with 0 and 1

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

Write the missing digits in the boxes to make each multiplication problem true.

$3 \times 1 = \square$

$0 \times 7 = \square$

$5 \times 1 = \square$

$1 \times 0 = \square$

$1 \times 7 = \square$

$4 \times \square = 0$

$4 \times \square = 4$

$9 \times \square = 0$

$\square \times 1 = 3$

$\square \times 9 = 9$

$\square \times 8 = 0$

$\square \times 6 = 0$

Write two factors to make each multiplication problem true.

$\square \times \square = 5$

$\square \times \square = 7$

$\square \times \square = 2$

$\square \times \square = 1$

Write a digit in the box to make the multiplication problem true. Then use words to write about the groups.

$\square \times 0 = 0$

# Multiplying with 3

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

## Multiply.

1  $2 \times 3 =$  \_\_\_\_\_ 2  $3 \times 2 =$  \_\_\_\_\_ 3  $10 \times 3 =$  \_\_\_\_\_ 4  $3 \times 10 =$  \_\_\_\_\_

5  $5 \times 3 =$  \_\_\_\_\_ 6  $3 \times 5 =$  \_\_\_\_\_ 7  $4 \times 3 =$  \_\_\_\_\_ 8  $3 \times 4 =$  \_\_\_\_\_

9  $9 \times 3 =$  \_\_\_\_\_ 10  $3 \times 9 =$  \_\_\_\_\_ 11  $1 \times 3 =$  \_\_\_\_\_ 12  $3 \times 1 =$  \_\_\_\_\_

13  $8 \times 3 =$  \_\_\_\_\_ 14  $3 \times 8 =$  \_\_\_\_\_ 15  $6 \times 3 =$  \_\_\_\_\_ 16  $3 \times 6 =$  \_\_\_\_\_

17  $7 \times 3 =$  \_\_\_\_\_ 18  $3 \times 7 =$  \_\_\_\_\_ 19  $0 \times 3 =$  \_\_\_\_\_ 20  $3 \times 3 =$  \_\_\_\_\_

21 Tell how you could check that your answer to problem 9 is correct.

22 Draw a model to show how you solved one of the problems.

## Multiplying with 4

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

**Multiply.**

**1**  $2 \times 4 =$  \_\_\_\_\_ **2**  $3 \times 4 =$  \_\_\_\_\_ **3**  $10 \times 4 =$  \_\_\_\_\_ **4**  $5 \times 4 =$  \_\_\_\_\_

**5**  $7 \times 4 =$  \_\_\_\_\_ **6**  $6 \times 4 =$  \_\_\_\_\_ **7**  $8 \times 4 =$  \_\_\_\_\_ **8**  $9 \times 4 =$  \_\_\_\_\_

**9**  $1 \times 4 =$  \_\_\_\_\_ **10**  $4 \times 5 =$  \_\_\_\_\_ **11**  $0 \times 4 =$  \_\_\_\_\_ **12**  $4 \times 10 =$  \_\_\_\_\_

**13**  $4 \times 3 =$  \_\_\_\_\_ **14**  $4 \times 2 =$  \_\_\_\_\_ **15**  $4 \times 1 =$  \_\_\_\_\_ **16**  $4 \times 4 =$  \_\_\_\_\_

**17** Tell what strategy you used to solve  $6 \times 4$ .

**18** Draw a model to show how you solved one of the problems.

## Multiplying with 6

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

**Multiply.**

1  $5 \times 6 =$  \_\_\_\_\_ 2  $3 \times 6 =$  \_\_\_\_\_ 3  $10 \times 6 =$  \_\_\_\_\_ 4  $2 \times 6 =$  \_\_\_\_\_

5  $7 \times 6 =$  \_\_\_\_\_ 6  $4 \times 6 =$  \_\_\_\_\_ 7  $8 \times 6 =$  \_\_\_\_\_ 8  $1 \times 6 =$  \_\_\_\_\_

9  $9 \times 6 =$  \_\_\_\_\_ 10  $6 \times 5 =$  \_\_\_\_\_ 11  $0 \times 6 =$  \_\_\_\_\_ 12  $6 \times 10 =$  \_\_\_\_\_

13  $6 \times 3 =$  \_\_\_\_\_ 14  $6 \times 2 =$  \_\_\_\_\_ 15  $6 \times 5 =$  \_\_\_\_\_ 16  $6 \times 6 =$  \_\_\_\_\_

17 Tell a strategy you can use to show  $5 \times 6$ .

18 Explain how problem 2 and problem 13 are related.

# Multiplying with 7

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

The answers are mixed up at the bottom of the page. Cross out the answers as you complete the problems.

1  $3 \times 7 =$  \_\_\_\_\_

2  $6 \times 7 =$  \_\_\_\_\_

3  $8 \times 7 =$  \_\_\_\_\_

4  $2 \times 7 =$  \_\_\_\_\_

5  $9 \times 7 =$  \_\_\_\_\_

6  $1 \times 7 =$  \_\_\_\_\_

7  $7 \times 0 =$  \_\_\_\_\_

8  $10 \times 7 =$  \_\_\_\_\_

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

10  $5 \times 7 =$  \_\_\_\_\_

11  $7 \times 3 =$  \_\_\_\_\_

12  $0 \times 7 =$  \_\_\_\_\_

13  $7 \times 2 =$  \_\_\_\_\_

14  $7 \times 10 =$  \_\_\_\_\_

15  $7 \times 4 =$  \_\_\_\_\_

16  $7 \times 1 =$  \_\_\_\_\_

17  $7 \times 5 =$  \_\_\_\_\_

18  $7 \times 7 =$  \_\_\_\_\_

## Answers

14	63	35	70	0	42
7	28	14	21	56	21
28	0	70	49	35	7

# Multiplying with 8

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

The answers are mixed up at the bottom of the page. Cross out the answers as you complete the problems.

1  $2 \times 8 =$  \_\_\_\_\_

2  $6 \times 8 =$  \_\_\_\_\_

3  $7 \times 8 =$  \_\_\_\_\_

4  $3 \times 8 =$  \_\_\_\_\_

5  $9 \times 8 =$  \_\_\_\_\_

6  $1 \times 8 =$  \_\_\_\_\_

7  $0 \times 8 =$  \_\_\_\_\_

8  $10 \times 8 =$  \_\_\_\_\_

9  $4 \times 8 =$  \_\_\_\_\_

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

11  $8 \times 3 =$  \_\_\_\_\_

12  $8 \times 0 =$  \_\_\_\_\_

13  $8 \times 2 =$  \_\_\_\_\_

14  $8 \times 10 =$  \_\_\_\_\_

15  $8 \times 4 =$  \_\_\_\_\_

16  $8 \times 7 =$  \_\_\_\_\_

17  $8 \times 5 =$  \_\_\_\_\_

18  $8 \times 8 =$  \_\_\_\_\_

## Answers

64	40	48	8	0	56
72	80	24	32	16	32
24	0	80	40	56	16



# Multiplying with 9

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

The answers are mixed up at the bottom of the page. Cross out the answers as you complete the problems.

1  $1 \times 9 =$  \_\_\_\_\_

2  $6 \times 9 =$  \_\_\_\_\_

3  $7 \times 9 =$  \_\_\_\_\_

4  $2 \times 9 =$  \_\_\_\_\_

5  $8 \times 9 =$  \_\_\_\_\_

6  $3 \times 9 =$  \_\_\_\_\_

7  $0 \times 9 =$  \_\_\_\_\_

8  $10 \times 9 =$  \_\_\_\_\_

9  $4 \times 9 =$  \_\_\_\_\_

10  $5 \times 9 =$  \_\_\_\_\_

11  $9 \times 3 =$  \_\_\_\_\_

12  $9 \times 8 =$  \_\_\_\_\_

13  $9 \times 2 =$  \_\_\_\_\_

14  $9 \times 10 =$  \_\_\_\_\_

15  $9 \times 4 =$  \_\_\_\_\_

16  $9 \times 7 =$  \_\_\_\_\_

17  $9 \times 5 =$  \_\_\_\_\_

18  $9 \times 9 =$  \_\_\_\_\_

## Answers

63	45	18	81	90	36
72	54	27	36	72	63
90	0	18	9	27	45