# Manatee Math

# Summer Program

Once the packet is complete, turn it in for a prize once school resumes!

# Incoming 4th Grade

## 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 9is correct.

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

# Using Order and Grouping to Multiply

Name: _____

**Order and group the factors to show how you want to multiply. Then find the product.**

1. $5 \times 7 \times 2$

   $5 \times 2 \times 7$

   $(5 \times 2) \times 7$

   $10 \times 7 = 70$

2. $3 \times 5 \times 3$

3. $4 \times 8 \times 2$

4. $2 \times 9 \times 5$

5. $2 \times 10 \times 5$

6. $2 \times 8 \times 2$

7. $3 \times 9 \times 3$

8. $5 \times 2 \times 6$

9. $4 \times 5 \times 2$

10. $2 \times 9 \times 2$

11. $3 \times 8 \times 2$

12. $4 \times 2 \times 7$

13. What strategies did you use to decide how to order and group the factors?

14. Why do you need to reorder factors in some problems?

# Multiplying with 8

Name: _____

Manatee Summer Math
Incoming Fourth Grade Week 2

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

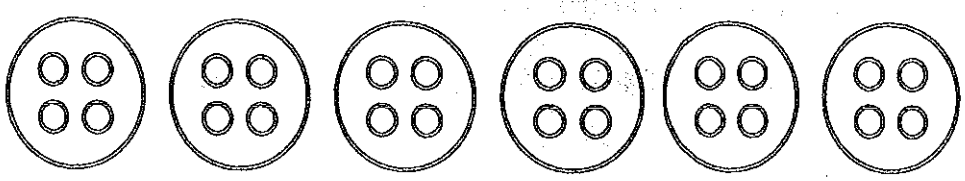
1. $2 \times 8 =$ _____
2. $6 \times 8 =$ _____
3. $7 \times 8 =$ _____
4. $3 \times 8 =$ _____
5. $9 \times 8 =$ _____
6. $1 \times 8 =$ _____
7. $0 \times 8 =$ _____
8. $10 \times 8 =$ _____
9. $4 \times 8 =$ _____
10. $5 \times 8 =$ _____
11. $8 \times 3 =$ _____
12. $8 \times 0 =$ _____
13. $8 \times 2 =$ _____
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 |

# Understanding of How Multiplication and Division Are Connected

Name: _____



1. There are 24 marbles. Each bag has 4 marbles.

   Write an equation that shows the number of bags.

   _____

2. There are 24 marbles. An equal number of marbles are in 6 bags.

   Write an equation that shows the number of marbles in each bag.

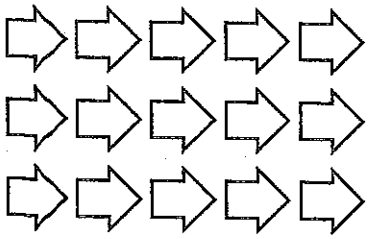
   _____

3. There are 6 bags of marbles. 4 marbles are in each bag.

   Write two different equations that show the total number of marbles.

   _____ _____

4. Write 2 multiplication equations and 2 division equations for this array.



   _____ _____

   _____ _____

Find the value of ? to complete each fact.

5. $6 \times ? = 48$

   $48 \div 6 = ?$

   $? =$ _____

6. $? \times 5 = 45$

   $45 \div ? = 5$

   $? =$ _____

7. $63 \div 9 = ?$

   $? \times 9 = 63$

   $? =$ _____

8. $32 \div ? = 8$

   $8 \times ? = 32$

   $? =$ _____

# 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 |

# Working with Division Facts

Name: _____

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

1. 40 ÷ 4 = _____
2. 18 ÷ 3 = _____
3. 24 ÷ 4 = _____
4. 24 ÷ 8 = _____
5. 14 ÷ 2 = _____
6. 40 ÷ 8 = _____
7. 42 ÷ 7 = _____
8. 64 ÷ 8 = _____
9. 32 ÷ 8 = _____
10. 56 ÷ 8 = _____
11. 27 ÷ 9 = _____
12. 28 ÷ 7 = _____
13. 72 ÷ 8 = _____
14. 90 ÷ 9 = _____
15. 54 ÷ 9 = _____
16. 48 ÷ 8 = _____
17. 49 ÷ 7 = _____
18. 27 ÷ 3 = _____

**Answers:**

| | | | | | |
|---|---|---|---|---|---|
| 4 | 4 | 9 | 6 | 7 | 10 |
| 5 | 10 | 3 | 3 | 6 | 7 |
| 8 | 6 | 6 | 7 | 6 | 9 |

# Solving Problems About Equal Groups

Name: _____

**Read and solve each problem. Show your work.**

1. Heather has 18 photographs of rockets. She wants to hang them on 3 different walls in her room. Each wall will have the same number of photographs. How many photographs will hang on each wall?

There will be _____ photographs on each wall.

2. There are 24 people who want to play volleyball. The coach divides the players into teams of 6. How many teams can she make?

The coach can make _____ teams.

3. At an art show, there are 7 groups of paintings with 6 paintings in each group. How many paintings are there in all?

There are _____ paintings.

4. Jasmine reads for 10 minutes each night. If she reads for 5 nights, how many minutes will she read in all?

Jasmine will read for _____ minutes.

5. Rhonda plants 28 tomato plants in her garden. She plants 7 tomato plants in each row. How many rows does she plant?

Rhonda plants _____ rows.

6. Mr. Jones buys 6 packages of pencils. There are 8 pencils in each package. How many pencils does Mr. Jones buy?

Mr. Jones buys _____ pencils.

7. Choose one problem. Describe the strategy you used to solve it.

# Solving Problems About Arrays

Name: _____

**Read and solve each problem. Show your work.**

1. A parking lot has 6 rows of parking spaces. There are 5 spaces in each row. How many parking spaces are in the lot?

   There are _____ parking spaces.

2. Jack has 36 toy robots. He wants to display 9 on each shelf in his room. How many shelves will Jack need to display all of the robots?

   Jack will need _____ shelves.

3. There are 24 dancers. The teacher has them stand in 3 equal rows. How many dancers are in each row?

   There are _____ dancers in each row.

4. Emily is putting away plates. She puts 6 plates each in 3 stacks. How many plates does she put away?

   Emily puts away _____ plates.

5. A farmer picks 54 pumpkins. She places an equal number of pumpkins in 9 wagons. How many pumpkins are in each wagon?

   There are _____ pumpkins in each wagon.

6. The school band marches in rows at the parade. There are 24 band members and they form rows with 4 members in each row. How many rows are there?

   There are _____ rows.

7. Choose one problem. Describe and use a strategy to check your answer.

# Solving Problems About Area

Name: _____

**Read and solve each problem. Show your work.**

1. Nya covers a rectangular tray with 1-square-inch tiles. She uses 42 tiles, arranged in 7 rows. How many tiles are in each row?

   There are _____ tiles in each row.

2. Jacob uses tiles to cover a rectangular hallway. Each tile has an area of 1 square foot. He uses 3 rows of tiles, with 8 tiles in each row. What is the area of the hallway?

   The area of the hallway is _____ square feet.

3. Sara covers the top of a box with squares of paper that are 1 square centimeter. She uses 48 squares, with 6 squares in each row. How many rows did she make?

   Sara made _____ rows.

4. There are 64 squares on Rasha's chessboard. Each square is 1 square inch. There are 8 rows of squares on her chessboard. How many squares are in each row?

   There are _____ squares in each row.

5. A rectangular patio at an outdoor restaurant is made of 35 tiles. Each tile is 1 square yard. If there are 5 tiles in each row, how many rows are there?

   There are _____ rows of tiles.

6. Mr. Reilly uses square pieces of fabric that are each 1 square inch for a rectangular wall hanging. He uses 81 squares. If he makes 9 rows of squares, how many squares will be in each row?

   There will be _____ squares in each row.

7. Choose one problem. Describe the strategy you used to solve it.

8. Explain why you chose that strategy to solve the problem.

# Solving Two-Step Word Problems Using Two Equations

Name: _____

**Read and solve each problem by writing an equation for each step. Use letters for the unknown numbers. Show your work.**

1. Hirami has 12 cups of flour in a bag and 6 cups of flour in a jar. He is making batches of bread that each call for 3 cups of flour. How many batches of bread can Hirami make?

Hirami can make _____ batches of bread.

2. Cassi bought 50 pounds of dirt. She used 10 pounds to fill a hole in her yard. Then she filled pots with 5 pounds of soil in each pot. How many pots could she fill?

Cassi can fill _____ pots.

3. Becky has 6 packages of clay that each weigh 5 pounds. To make a bowl, she needs 3 pounds of clay. How many bowls can Becky make?

Becky can make _____ bowls.

4. Marc has 36 pounds of apples to use to make pies. He uses 4 pounds of apples for each pie. Marc uses all of the apples to make pies, and then sells each pie for $8. How much money does Marc collect for all the pies?

Marc collects $ _____ for all the pies.

5. Choose one problem. Tell how you could solve the problem in a different way.