



# HOLY SPIRIT

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PREPARATORY SCHOOL

## *Fourth Grade Math*

### Summer Assignments

Academic Year - 2022-2023

#### **Course Information**

Department: STEM 4th Grade Math

Class Description: Rising 4th Grade Math

Contact [jangelle@holyspiritprep.org](mailto:jangelle@holyspiritprep.org) for any questions

#### **Summer Assignment**

##### Learning objectives

- Practice skills with addition, subtraction, multiplication, and division.
  - Practice with rounding numbers
  - Practice finding the area and perimeter of shapes
- Personalized review and practice of 3rd grade skills using IXL.
- 5 minutes daily flashcard review of multiplication and division facts.

##### Estimate time of completion

3-5 hours

##### Details of Assignment

1. Complete the 3rd Grade review packet (see below). All work is required to be shown (except for multiple choice questions). **NO CALCULATOR** may be used.
2. IXL: Take the diagnostic test, also called Snapshot for 3rd Grade. The program will then recommend an action plan. Spend approximately 20-30 minutes per week doing practice problems as assigned.

Name \_\_\_\_\_ Date \_\_\_\_\_

# Rounding Numbers

1.  
Round the following number to the nearest 10.  
**467**

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2.  
Round the following number to the nearest 10.  
**834**

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3.  
Round the following number to the nearest 100.  
**652**

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4.  
Round the following number to the nearest 10.  
**242**

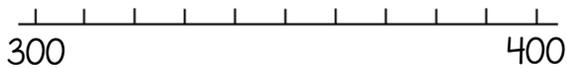
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5.  
Round the following number to the nearest 100.  
**799**

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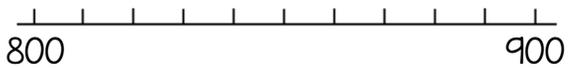


6. Place 360 on the number line below.



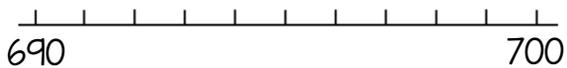
Is 360 closer to 300 or 400? \_\_\_\_\_

7. Place 880 on the number line below.



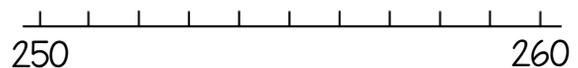
Is 880 closer to 800 or 900? \_\_\_\_\_

8. Place 694 on the number line below.



Is 694 closer to 690 or 700? \_\_\_\_\_

9. Place 258 on the number line below.



Is 258 closer to 250 or 260? \_\_\_\_\_

10. A three digit number has the digits 2, 5, and 7. When rounded to the nearest hundred, it rounds to 800. What is the number? \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_



# Add & Subtract

## WHOLE NUMBERS

1. Find the sum.

$$\begin{array}{r} 72 \\ + 29 \\ \hline \end{array}$$

2. Find the difference.

$$\begin{array}{r} 62 \\ - 38 \\ \hline \end{array}$$

3. Find the missing number.

$$\begin{array}{r} 57 \\ + \quad \\ \hline 82 \end{array}$$

4. Find the sum.

$$\begin{array}{r} 136 \\ + 173 \\ \hline \end{array}$$

5. Find the difference.

$$\begin{array}{r} 347 \\ - 262 \\ \hline \end{array}$$

6. Find the missing number.

$$\begin{array}{r} 423 \\ + \quad \\ \hline 705 \end{array}$$

7. Jesse scored 486 points on a video game. April scored 182 points. How many more points did Jesse score than April?

8. Mrs. Miller drove 278 miles on Monday and 342 miles on Tuesday. Write and solve a number sentence to find how far she drove in all.

9. Lanie has 225 pennies, 105 nickels, and 25 dimes. How many coins does she have in all?

10. The table below shows items purchased for a summer pool party.

Item	Number Purchased
Bottled Water	36
Popsicles	24
Pool Toys	12

Which number sentence can be used to find how many more bottles of water than popsicles were purchased?

- A.  $36 - 12 = \underline{\quad}$
- B.  $36 + 12 = \underline{\quad}$
- C.  $36 - 24 = \underline{\quad}$
- D.  $36 + 24 = \underline{\quad}$

Name \_\_\_\_\_ Date \_\_\_\_\_



# Equal Groups

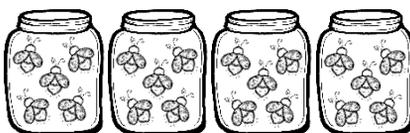
## Multiplication



1. Becca collected 6 boxes of seashells. She put 7 seashells in each box. Which of these shows how many seashells Becca has collected?

- A.  $6 \times 7$   
 B.  $6 + 7$   
 C.  $6 \times 6 \times 6 \times 6 \times 6 \times 6$   
 D.  $7 \times 7 \times 7 \times 7 \times 7 \times 7$

2. Which equation below is represented in the picture?

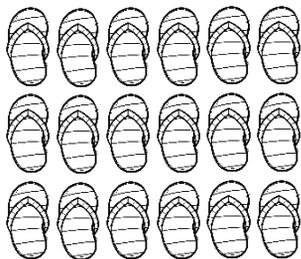


- A.  $20 \times 4$   
 B.  $10 \times 2$   
 C.  $5 \times 5 \times 5 \times 5$   
 D.  $4 \times 5$

3. Liz has 4 boxes of crayons. Each box contains 8 crayons. Write an expression Liz could use to show the total number of crayons she has all together?

\_\_\_\_\_

4. Which expression is represented by this array?



\_\_\_\_\_

5. Dan has 8 pages of baseball cards. There are 8 cards on each page. How many cards does Dan have in all? Write a number sentence to solve the problem.

\_\_\_\_\_

6. Allysa makes 3 bracelets. Each bracelet has 9 beads. She uses  $3 \times 9$  to find the total number of beads. Her friend puts one more bead on each bracelet Allysa makes. What new multiplication fact can be used to find the total number of beads they used?

\_\_\_\_\_

7. Mrs. Smith baked 3 batches of cookies. Each batch had 12 cookies. Which expression shows how many cookies Mrs. Smith baked?

- A.  $12 + 3$   
 B.  $12 - 3$   
 C.  $12 \times 3$   
 D.  $3 + 3 + 3$

8. Draw an array to match the word problem below.

Holly has 3 boxes of popsicles. Each box has 5 popsicles in it. How many popsicles does Holly have all together?

\_\_\_\_\_

9. Which is another way to find the total number of ladybug legs?

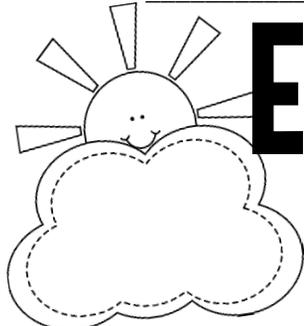


$$6 + 6 + 6 + 6$$

- A.  $4 + 6$   
 B.  $4 \times 6$   
 C.  $6 - 4$   
 D.  $4 + 4 + 4 + 4 + 4 + 4$

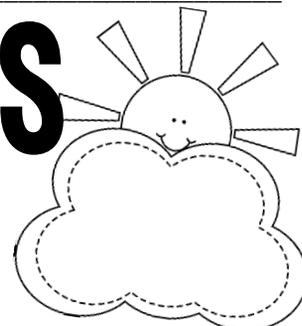
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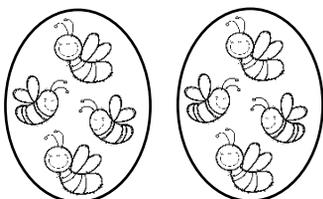


# EQUAL GROUPS

# Division



1. Which equation is shown by the picture?



- A.  $8 \div 2 = 4$
- B.  $8 \div 4 = 2$
- C.  $4 \div 2 = 2$
- D.  $4 \div 4 = 1$

2. Mr. Richards has \$15 to divide equally between his 3 children. Which equation could Mr. Richards use to find out how much money each of his children should receive?

- A.  $15 + 3 = 18$
- B.  $15 - 3 = 12$
- C.  $15 \div 3 = 5$
- D.  $15 \times 3 = 45$

3. Amanda has a bag of 32 popsicles to give out at her pool party. There are 7 girls at her party. If she divides the popsicles between all the girls, including herself, how many popsicles will each girl get?

\_\_\_\_\_

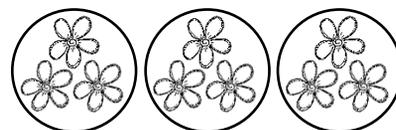
4. Addison read 45 books over the summer. She sorts her books into 5 equal groups. How many books does she put in each group?

\_\_\_\_\_

5. Dan buys 6 packs of gum with 5 pieces in each pack. He shares the gum evenly among himself and 5 friends. Write an equation to show how many pieces of gum will each friend receive?

\_\_\_\_\_

6. Julie drew the picture below to match an equation. Which equation matches Julie's picture?



- A.  $3 \times 3 = 9$
- B.  $9 \div 3 = 3$
- C.  $9 - 3 = 6$
- D.  $27 \div 3 = 9$

7. Leah bought 54 strawberries. She put the same number of strawberries into 9 baskets. Write an equation to show how many strawberries she put in each basket.

\_\_\_\_\_

8. Nick has collected 60 rocks. He puts an equal number of rocks into 5 boxes. How does Nick find the number of rocks in each box?

- A. He multiplies 5 times 60
- B. He subtracts 5 from 60
- C. He adds 60 to 5
- D. He divides 60 by 5

9. Abby makes 12 cupcakes for 6 friends. She wants to know how many cupcakes each friend will get. Which expression will help Abby find the number of cupcakes each friend will get?

- A.  $12 \div 6 = 2$
- B.  $12 \times 2 = 6$
- C.  $18 \div 6 = 3$
- D.  $12 \times 6 = 72$

Name \_\_\_\_\_ Date \_\_\_\_\_



# Unknown

## Whole Numbers

Place a number in each blank to make the number sentence true.

1.

$$9 \times \underline{\quad} = 27$$

2.

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

3.

$$\underline{\quad} \times 4 = 40$$

4.

$$\underline{\quad} \div 3 = 7$$

5.

$$10 \times \underline{\quad} = 20$$

6.

$$5 \times \underline{\quad} = 45$$

7.

$$42 \div \underline{\quad} = 6$$

8.

$$\underline{\quad} \div 2 = 4$$

9.

$$5 \times \underline{\quad} = 30$$

Name \_\_\_\_\_

Date \_\_\_\_\_

# Telling TIME



1. Julia went to the pool 60 minutes after the time shown on the clock. What time did Julia go to the pool?



- A. 1:20
- B. 1:40
- C. 2:20
- D. 2:40

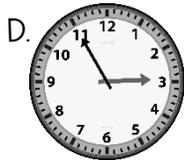
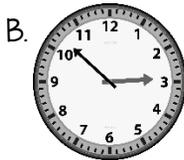
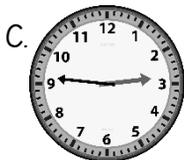
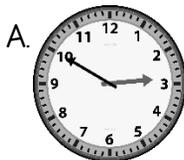
2. Lily's birthday party last one hour and thirty minutes. The clock shows what time her birthday party ended. What time did Lily's birthday party start?



- A. 4:00
- B. 4:30
- C. 3:00
- D. 3:30

3. Which clock best represents the time shown on the digital clock?

**2:50**

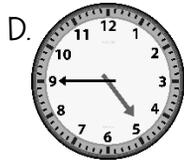
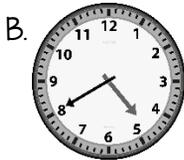
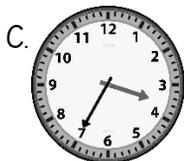
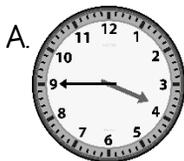


4. Mrs. Smith started cooking 45 minutes before the time shown on the clock. What time was it when Mrs. Smith started to cook?



- A. 4:30
- B. 4:45
- C. 5:30
- D. 5:45

5. The time now is 3:20. Jake has to leave for baseball practice in 15 minutes. Which clock shows the time Jake will leave for baseball practice?



6. Molly leaves for her grandparents house at the time shown on the clock. She gets back home 3 hours and 30 minutes later. What time did Molly get home?



- A. 6:15
- B. 6:45
- C. 6:00
- D. 5:30

7. Kyle leaves his house at 2:30 to go to walk his dog. Taylor leaves her house 20 minutes earlier to walk her dog. What time did Taylor start walking her dog?

- A. 1:20
- B. 1:40
- C. 2:10
- D. 2:40

8. Kasey gets up at 6:15 a.m. She eats breakfast at 7:20 a.m. How long is it after Kasey gets up before she eats breakfast?

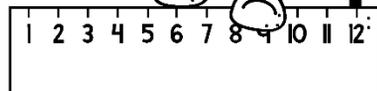
- A. 55 minutes
- B. 60 minutes
- C. 65 minutes
- D. 70 minutes

9. It took 18 minutes for Scott to walk to Mark's house. If he left at 7:48, what time did Scott get to Mark's house?

\_\_\_\_\_

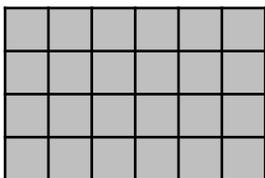
Name \_\_\_\_\_

Date \_\_\_\_\_



# FIND THE AREA

1. One way to find the area of this rectangle is to count each square. Which of the following is another way to find the area?



- A.  $6 + 4$
- B.  $6 \times 4$
- C.  $7 + 4$
- D.  $7 \times 4$

2. The dimensions of the rectangle are shown in feet. What is the area of the rectangle?

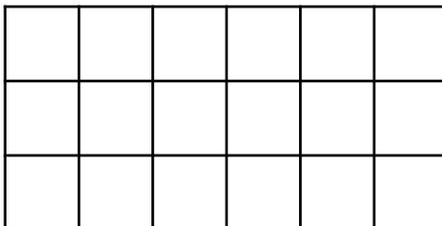


- A. 3 square feet
- B. 13 square feet
- C. 26 square feet
- D. 40 square feet

3. The area of a rectangular garden Tyler built is 72 feet. Which could be the length and width of the garden?

- A. 8 feet x 7 feet
- B. 8 feet x 9 feet
- C. 8 feet x 8 feet
- D. 7 feet x 10 feet

4. Ms. Ashley used square inch tiles to show a model of a window. Which equation set shows two ways to find the area of the window?



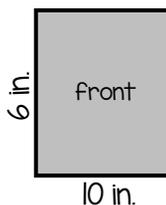
- A.  $3 + 3 + 3 + 3 + 3 + 3 = 6 \times 3$
- B.  $6 + 6 + 6 + 6 + 6 + 6 = 3 \times 6$
- C.  $3 \times 3 \times 3 \times 3 \times 3 \times 3 = 6 \times 3$
- D.  $6 + 6 + 6 = 3 + 6$

5. Jessica is using square pieces of paper to cover a rectangular bulletin board? The board is 20 feet long by 5 feet wide. Each piece of paper is 1 foot long and 1 foot wide. None of the pieces of paper will overlap. How many pieces of paper will Jessica need to cover the bulletin board? (Draw a picture to solve the problem)

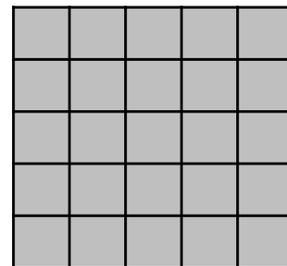
- A. 25
- B. 50
- C. 100
- D. 125

6. Sam covered the front and back of his math book with contact paper. The front of the book is the same size as the back. What is the total area of the front and back of Sam's math book?

- A. 120 sq. in.
- B. 60 sq. in.
- C. 32 sq. in.
- D. 20 sq. in.

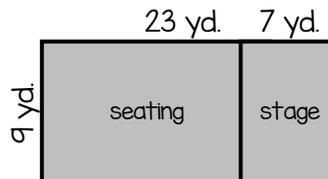


7. Which number sentence shows how to find the area of the square?



- A.  $5 + 5$
- B.  $5 + 5 + 5 + 5 + 5$
- C.  $5 \times 5 \times 5 \times 5 \times 5$
- D.  $5 \times 5$

8. A diagram of a theater is shown below. The total area of theater floor is  $(23 \times 9) + (7 \times 9)$  square yards. Which expression is equivalent to the total area of the theater floor?

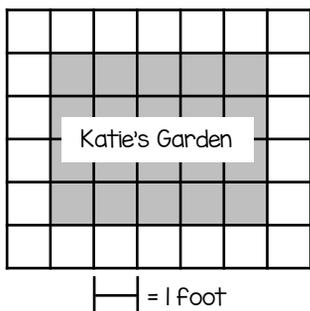


- A.  $9 \times (23 + 7)$
- B.  $9 \times (23 \times 7)$
- C.  $9 + (23 + 7)$
- D.  $9 + (23 \times 7)$

Name \_\_\_\_\_ Date \_\_\_\_\_

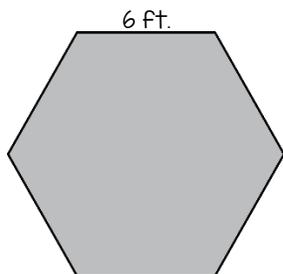
# FIND THE PERIMETER

1. Katie wants to put fencing around the outside edge of her garden. To do this, she needs to know the perimeter. What is the perimeter of Katie's garden?



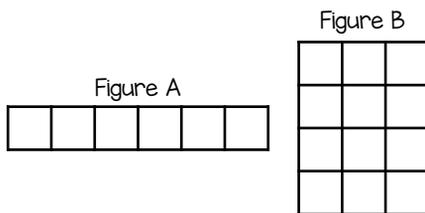
- A. 10 feet
- B. 18 feet
- C. 20 feet
- D. 24 feet

2. The picture below represents a patio that measures 6 ft. on each of its six sides. What is the perimeter of the patio?



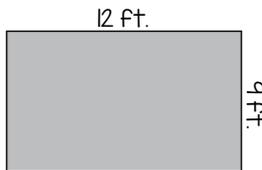
- A. 6 feet
- B. 12 feet
- C. 36 feet
- D. 42 feet

3. Ben compared the area and perimeter of the two figures below. Which statement is true?



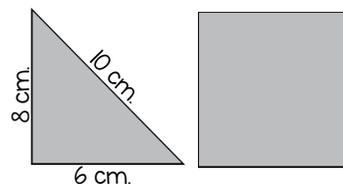
- A. The figures have the same area but different perimeters.
- B. The figures have the same perimeter but different area.
- C. The figures have the same perimeter and the same area.
- D. The figures have different areas and different perimeters.

4. Mrs. Absher bought a rectangle rug for her living room. Which statement about the rug is true?



- A. The perimeter is 108 feet.
  - B. The area is 42 feet.
  - C. The area and perimeter are the same.
  - D. The perimeter is 42 feet and the area is 108 feet.
5. Amy wants to sew a fringe border around her square shaped blanket. One side of her blanket measures 96 inches. How many inches of fringe border does she need?

6. The square has the same perimeter as the triangle. What is the length of each side of the square?



- A. 6 centimeters
  - B. 8 centimeters
  - C. 12 centimeters
  - D. 24 centimeters
7. Mattie is making a blanket for her mother that measures 54 inches by 68 inches. What is the perimeter of the blanket?

