

# Mathematics Spiral Review Quarter 4.1

## Grade 3



### **Basic Computation** (3.OA.6, 3.OA.7)

$$36 \div 4 = \underline{\quad}$$

$$35 \div 7 = \underline{\quad}$$

$$40 \div 5 = \underline{\quad}$$

$$32 \div 8 = \underline{\quad}$$

### **Place Value** (3.NBT.1)

Write a three-digit number that equals 200 when rounded to the nearest hundred. Think of at least 5 different answers.

### **Estimation** (3.OA.8)

Use estimation to find a reasonable solution.

Mrs. Smith has \$49 to spend on gifts for her 5 friends. *About* how much money can she spend on each friend?

### **Skill of the Week** (3.NF.1, 3.NF.2, 3.NF.3)

Josh ran  $\frac{3}{4}$  of a mile. Tim ran  $\frac{3}{8}$  of a mile. Who ran farther? Compare the fractions by drawing a model and using a number line.

### **Drawing/Picture** (3.NF.1)

Lindsay looked at a pan of brownies. She saw that  $\frac{2}{6}$  of them were left. Draw a picture and shade the brownies that were eaten. Label the brownies that were left.

### **Measurement** (3.MD.5, 3.MD.7, 3.MD.8)

Mackenzie wants to build a rectangular pen for her pet pig. She plans to make a pen with an area of 50 square feet. If one of the sides of the pen is 10 feet, what is the length of the other side of the pen? Explain your thinking.

# Mathematics Spiral Review Quarter 4.1

## Grade 3 **Answer Key**



### Basic Computation (3.OA.6, 3.OA.7)

$$36 \div 4 = \underline{9}$$

$$35 \div 7 = \underline{5}$$

$$40 \div 5 = \underline{8}$$

$$32 \div 8 = \underline{4}$$

### Place Value (3.NBT.1)

Write a three-digit number that equals 200 when rounded to the nearest hundred. Think of at least 5 different answers. *Possible answers include numbers from 150 to 249 such as 152, 164, 179, 207, 218, 230, and 248.*

### Estimation (3.OA.8)

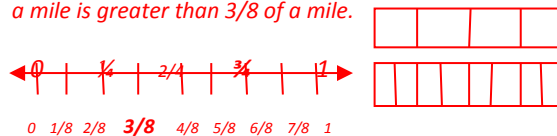
Use estimation to find a reasonable solution.

Mrs. Smith has \$49 to spend on gifts for her 5 friends.  
About how much money can she spend on each friend?

*Mrs. Smith has about \$50. If she divides the money between gifts for 5 friends, then she can spend about \$10 on each friend.  $\$50 \div 5 = \$10$*

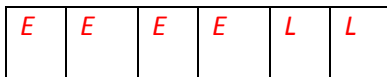
### Skill of the Week (3.NF.1, 3.NF.2, 3.NF.3)

Josh ran  $\frac{3}{4}$  of a mile. Tim ran  $\frac{3}{8}$  of a mile. Who ran farther? Compare the fractions by drawing a model and using a number line. *Josh ran farther than Tim because  $\frac{3}{4}$  of a mile is greater than  $\frac{3}{8}$  of a mile.*



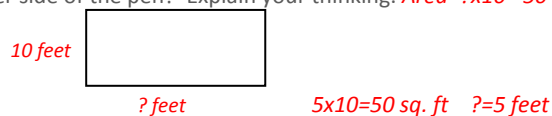
### Drawing/Picture (3.NF.1)

Lindsay looked at a pan of brownies. She saw that  $\frac{2}{6}$  of them were left. Draw a picture and shade the brownies that were eaten. Label the brownies that were left. *E=Eaten brownies (4/6) L=Brownies left (2/6)*



### Measurement (3.MD.5, 3.MD.7, 3.MD.8)

Mackenzie wants to build a rectangular pen for her pet pig. She plans to make a pen with an area of 50 square feet. If one of the sides of the pen is 10 feet, what is the length of the other side of the pen? Explain your thinking. *Area =  $? \times 10 = 50$*



# Mathematics Spiral Review Quarter 4.2

## Grade 3



### **Basic Computation** (3.OA.6, 3.OA.7)

$$30 \div \underline{\quad} = 6$$

$$15 \div \underline{\quad} = 5$$

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

$$12 \div \underline{\quad} = 4$$

### **Place Value** (3.NBT.1)

Write a three-digit number that equals 400 when rounded to the nearest hundred. Think of at least 5 different answers.

### **Estimation** (3.OA.8)

Use estimation to find a reasonable solution.

Louise has 782 pennies in her piggy bank. Mary has 421 pennies, and Ruth has 597 pennies. *About* how many pennies do the girls have?

### **Skill of the Week** (3.NF.3c)

Larry, Monica, and Cara are going to share \$12 equally. How many dollars will each person get? Write a fraction to represent the situation.

### **Drawing/Picture** (3.NF.1, 3.NF.2, 3.NF.3)

Beth swam  $\frac{1}{6}$  of a mile. Jordan swam  $\frac{5}{6}$  of a mile. Who swam farther? Compare the fractions by drawing a model and using a number line.

### **Measurement** (3.MD.5, 3.MD.7, 3.MD.8)

Paul wants to put a border around the edge of the rectangular bulletin board. The bulletin board has a perimeter of 30 feet. If one of the sides of the board is 5 feet, what is the length of the other side of the board? Explain your thinking.

# Mathematics Spiral Review Quarter 4.2

## Grade 3 Answer Key



### Basic Computation (3.OA.6, 3.OA.7)

$$30 \div \underline{5} = 6$$

$$15 \div \underline{3} = 5$$

$$24 \div \underline{8} = 3$$

$$12 \div \underline{3} = 4$$

### Place Value (3.NBT.1)

Write a three-digit number that equals 400 when rounded to the nearest hundred. Think of at least 5 different answers. *Possible answers include numbers from 350 to 449, such as 352, 370, 384, 399, 403, 429, and 444.*

### Estimation (3.OA.8)

Use estimation to find a reasonable solution.

Louise has 782 pennies in her piggy bank. Mary has 421 pennies, and Ruth has 597 pennies. *About how many pennies do the girls have? Louise has about 800 pennies. Mary has about 400 pennies. Ruth has about 600 pennies. When joined together, the girls have about 1,800 pennies because  $800 + 400 + 600 = 1,800$ .*

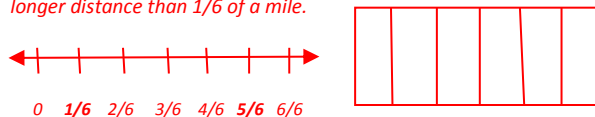
### Skill of the Week (3.NF.3c)

Larry, Monica, and Cara are going to share \$12 equally. How many dollars will each person get? Write a fraction to represent the situation.

*\$12 divided equally among 3 people could be represented as  $12/3$  which means  $12 \div 3 = 4$ . Each person will receive \$4. The fraction could also be written as  $4/1$  in simplest form.*

### Drawing/Picture (3.NF.1, 3.NF.2, 3.NF.3)

Beth swam  $1/6$  of a mile. Jordan swam  $5/6$  of a mile. Who swam farther? Compare the fractions by drawing a model and using a number line. *Jordan swam farther because  $5/6$  of a mile is a longer distance than  $1/6$  of a mile.*



### Measurement (3.MD.5, 3.MD.7, 3.MD.8)

Paul wants to put a border around the edge of the rectangular bulletin board. The bulletin board has a perimeter of 30 feet. If one of the sides of the board is 5 feet, what is the length of the other side of the board? *10 ft. Explain your thinking. I know that the perimeter of the rectangle is 30 feet and two sides are 5 feet. ( $5+5=10$  feet) The total perimeter of 30 feet minus the known parts (10 feet) leaves 20 feet. ( $30-10=20$ ) So the remaining sides must make up 20 feet of the perimeter which means the other sides are 10 feet each. ( $20 \div 2 = 10$ )*

# Mathematics Spiral Review Quarter 4.3

## Grade 3



### **Basic Computation** (3.OA.9)

Extend the following pattern using the pattern rule. Pattern rule: Add ten to the previous number to get the next number.

925, 935, 945, . . . .

### **Place Value** (3.NBT.1)

When rounded to the nearest ten, which of the following numbers in the list would be rounded to 250?

241, 255, 248, 259, 251, 245

### **Estimation** (3.OA.8)

Morgan and Taylor are going to a concert. They have a total of \$50 to spend at the concert. They need to buy two tickets for \$18 each. Will they have enough money to buy two t-shirts for \$12 each?

### **Skill of the Week** (3.NF.1, 3.NF.2, 3.NF.3)

At the zoo, Jason saw lots of different animals. One-third of the animals were reptiles. Three-sixths of the animals were mammals. Two-sixths of the animals were birds. Did Jason see more reptiles, mammals or birds?

### **Drawing/Picture** (3.NF.1, 3.NF.3)

Bailey and Clayton were comparing the fractions  $\frac{6}{8}$  and  $\frac{3}{4}$ . Bailey thinks that  $\frac{6}{8}$  is bigger because both the numerator and denominator in the fraction are larger. Clayton thinks that  $\frac{3}{4}$  is bigger because fourths are bigger than eighths. Who is correct? Use a picture.

### **Measurement** (3.MD.8)

Mark is trying to find the perimeter of a tile that is shaped like a hexagon. If each side of the hexagon is 5 inches long, what is the total perimeter of the tile?

# Mathematics Spiral Review Quarter 4.3

## Grade 3 **Answer Key**



### Basic Computation (3.OA.9)

Extend the following pattern using the pattern rule. Pattern rule: Add ten to the previous number to get the next number.

925, 935, 945, . . . *.955, 965, 975, 985, 995, 1005, 1015, 1025, 1035, 1045, . . .*

### Place Value (3.NBT.1)

When rounded to the nearest ten, which of the following numbers in the list would be rounded to 250? *248, 251, 245*

241, 255, 248, 259, 251, 245

### Estimation (3.OA.8)

Morgan and Taylor are going to a concert. They have a total of \$50 to spend at the concert. They need to buy two tickets for \$18 each. Will they have enough money to buy two t-shirts for \$12 each? *The two tickets will cost about \$40 because  $2 \times \$20 = \$40$ . They will have about \$10 left. That will not be enough to buy two t-shirts for \$12 each.*

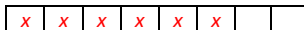
### Skill of the Week (3.NF.1, 3.NF.2, 3.NF.3)

At the zoo, Jason saw lots of different animals. One-third of the animals were reptiles. Three-sixths of the animals were mammals. Two-sixths of the animals were birds. Did Jason see more reptiles, mammals or birds?

*Jason saw more mammals at the zoo because  $3/6 > 1/3$  and  $3/6 > 2/6$ .*

### Drawing/Picture (3.NF.1, 3.NF.3)

Bailey and Clayton were comparing the fractions  $6/8$  and  $3/4$ . Bailey thinks that  $6/8$  is bigger because both the numerator and denominator in the fraction are larger. Clayton thinks that  $3/4$  is bigger because fourths are bigger than eighths. Who is correct? Use a picture. *The fractions are equal because  $6/8$  is equal to  $3/4$  in its simplest form.*



### Measurement (3.MD.8)

Mark is trying to find the perimeter of a tile that is shaped like a hexagon. If each side of the hexagon is 5 inches long, what is the total perimeter of the tile?

*A hexagon has 6 sides. If each side is 5 inches long, then the perimeter would be  $5+5+5+5+5+5=30$  inches or  $6 \times 5$  inches = 30 inches.*

# Mathematics Spiral Review Quarter 4.4

## Grade 3



### **Basic Computation** (3.OA.9)

Extend the following pattern using the pattern rule. Pattern rule: Double the previous number (multiply by 2) to get the next number.

1, 2, 4, . . . .

### **Place Value** (3.NBT.1)

When rounded to the nearest ten, which of the following numbers in the list would be rounded to 620?

602, 619, 623, 612, 628, 615

### **Estimation** (3.OA.8)

Megan wants to make chocolate sundaes for her birthday party. There will be 26 guests, and jar of chocolate will serve 4 people. *About* how many jars of chocolate should she buy to have enough for her guests?

### **Skill of the Week** (3.MD.1)

At 8:00 am Zachary arrived at school. It took him 2 minutes to walk upstairs, 4 minutes to clean out his locker, 9 minutes to complete his morning assignment, and 12 minutes to read the next chapter in his book. How many minutes did it take Zachary to do these activities? At what time did he finish?

### **Drawing/Picture** (3.NF.1, 3.NF.3)

Robby linked 8 connecting cubes together. Three of the cubes are red, 1 is green, and the rest are blue. Draw a picture to show the cubes. Write an addition equation with fractions to represent the colored parts.

### **Measurement** (2.MD.7)

Describe the hands on an analog clock at the following times:

2:30, 3:25, 4:05, 5:45

# Mathematics Spiral Review Quarter 4.4

## Grade 3 **Answer Key**



### Basic Computation (3.OA.9)

Extend the following pattern using the pattern rule.  
 Pattern rule: Double the previous number (multiply by 2) to get the next number.

1, 2, 4, . . . . **8, 16, 32, 64, 128, 256, . . . .**

### Place Value (3.NBT.1)

When rounded to the nearest ten, which of the following numbers in the list would be rounded to 620? **619, 623, 615**

602, 619, 623, 612, 628, 615

### Estimation (3.OA.8)

Megan wants to make chocolate sundaes for her birthday party. There will be 26 guests, and jar of chocolate will serve 4 people. *About* how many jars of chocolate should she buy to have enough for her guests? **There will be about 28 guests. I chose 28 as a friendly number because it is a multiple of 4, and I overestimated to make sure she will have enough chocolate. Megan will need to buy 7 jars of chocolate because  $28 \div 4 = 7$ .**

### Skill of the Week (3.MD.1)

At 8:00 am Zachary arrived at school. It took him 2 minutes to walk upstairs, 4 minutes to clean out his locker, 9 minutes to complete his morning assignment, and 12 minutes to read the next chapter in his book. How many minutes did it take Zachary to do these activities? **At what time did he finish? It took Zachary 27 minutes to do these activities ( $2+4+9+12=27$  minutes). If he started at 8:00 am, then he finished at 8:27 am.**

### Drawing/Picture (3.NF.1, 3.NF.3)

Robby linked 8 connecting cubes together. Three of the cubes are red, 1 is green, and the rest are blue. Draw a picture to show the cubes. Write an addition equation with fractions to represent the colored parts.  **$3/8 + 1/8 + 4/8 = 8/8$  or 1 whole**

<b>R</b>	<b>R</b>	<b>R</b>	<b>G</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>
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### Measurement (2.MD.7)

Describe the hands on an analog clock at the following times:

2:30, 3:25, 4:05, 5:45

**(2:30) The hour hand is between the 2 and the 3. The minute hand is on the 6. (3:25) The hour hand is between the 3 and the 4. The minute hand is on the 5. (4:05) The hour hand is on the 4. The minute hand is on the 1. (5:45) The hour hand is between the 5 and the 6, but it is getting closer to the 6. The minute hand is on the 9.**



# Mathematics Spiral Review Quarter 4.5

## Grade 3



### Basic Computation (3.OA.7)

$54 \div 9 = \underline{\quad}$        $36 \div 6 = \underline{\quad}$

$7 \times 6 = \underline{\quad}$        $49 \div 7 = \underline{\quad}$

$32 \div 4 = \underline{\quad}$        $8 \times 9 = \underline{\quad}$

### Place Value (3.NBT.1)

When rounded to the nearest ten, which of the following numbers in the list would be rounded to 1,230?

1,203; 1,234; 1,225; 1,236; 1,223; 1,229

### Estimation (3.OA.8)

Malinda wants to serve s'mores at her bonfire. One chocolate bar will make 3 s'mores. If she has 16 guests and each guest will get 2 s'mores, how many chocolate bars should she buy?

### Skill of the Week (3.MD.2)

Name an object that you would measure using the following units:

grams \_\_\_\_\_ kilograms \_\_\_\_\_

liters \_\_\_\_\_ centimeters \_\_\_\_\_

### Drawing/Picture (3.NF.1)

Show two ways to represent  $\frac{1}{4}$  of a square.

### Measurement (3.MD.1)

At 4:00 pm Corbin gets home from school. It takes him 15 minutes to finish his math homework. He reads for 10 minutes and studies his spelling words for 5 minutes. If Corbin is allowed to play outside after he finishes his homework until 5:00 pm, how long will he get to play outside?

# Mathematics Spiral Review Quarter 4.5

## Grade 3 **Answer Key**



### Basic Computation (3.OA.7)

$54 \div 9 = \underline{6}$        $36 \div 6 = \underline{6}$

$7 \times 6 = \underline{42}$        $49 \div 7 = \underline{7}$

$32 \div 4 = \underline{8}$        $8 \times 9 = \underline{72}$

### Place Value (3.NBT.1)

When rounded to the nearest ten, which of the following numbers in the list would be rounded to 1,230? **1,234; 1,225; 1,229**

1,203; 1,234; 1,225; 1,236; 1,223; 1,229

### Estimation (3.OA.8)

Malinda wants to serve s'mores at her bonfire. One chocolate bar will make 3 s'mores. If she has 16 guests and each guest will get 2 s'mores, how many chocolate bars should she buy? **If 16 guests each get 2 s'mores, then Malinda will need to make 32 s'mores because  $16 \times 2 = 32$ . If one chocolate bar will make 3 s'mores, then she will need to buy 11 bars because  $33 \div 3 = 11$ .**

### Skill of the Week (3.MD.2)

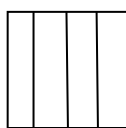
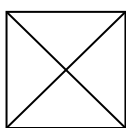
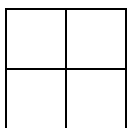
Name an object that you would measure using the following units:

grams **a quarter**      kilograms **a dog**

liters **water in a bucket**      centimeters **a caterpillar**

### Drawing/Picture (3.NF.1)

Show two ways to represent  $\frac{1}{4}$  of a square.



**$\frac{1}{4}$  of each square would be 1 of the 4 equal parts.**

### Measurement (3.MD.1)

At 4:00 pm Corbin gets home from school. It takes him 15 minutes to finish his math homework. He reads for 10 minutes and studies his spelling words for 5 minutes. If Corbin is allowed to play outside after he finishes his homework until 5:00 pm, how long will he get to play outside? **Corbin spends 30 minutes on his homework because  $15 + 10 + 5 = 30$  minutes. If he starts his homework at 4:00 pm, then he will finish it at 4:30 pm. He will be able to play outside for 30 minutes from 4:30 pm to 5:00 pm.**