

**Students Entering  
Sixth Grade**

**Summer Math Packet**

Name \_\_\_\_\_

10<sup>5</sup> 54  
26<sup>18</sup>

Dear Parents,

The attached packet provides a range of activities that review and expand on the math concepts your child has learned in school this past year. It is designed to be worked on for 15 to 30 minutes a day throughout the summer, rather than completed in just a few days at the beginning or end of summer. The goal is to keep skills sharp to be ready to move forward into the next school year. We have provided answers for grades 3-6 and ask you to please review the work with your child as it is completed. Students will be asked to hand in their completed work the first week of school.

Have a great summer!

Milam 6th Grade Math, Cummings Elementary

~~The Teachers Staff~~

Name \_\_\_\_\_

**Review**  
**2**

## Adding and Subtracting Decimals

Find  $1.7 + 2.45$ .

Find  $36.57 - 4.6$ .

<p><i>Line up the decimal points.</i></p> $\begin{array}{r} \downarrow \\ 1.7 \\ + 2.45 \\ \hline \end{array}$ $\begin{array}{r} 1 \\ 1.70 \leftarrow \text{Write zeros to} \\ + 2.45 \quad \text{show place value.} \\ \hline 4.15 \end{array}$ <p style="text-align: center;">↑ Place decimal point in answer.</p>	<p><i>Line up the decimal points.</i></p> $\begin{array}{r} \downarrow \\ 36.57 \\ - 4.6 \\ \hline \end{array}$ $\begin{array}{r} 5 \ 15 \\ 36.57 \\ - 4.60 \leftarrow \text{Write zeros to} \\ \hline 31.97 \end{array} \quad \text{show place value.}$ <p style="text-align: center;">↑ Place decimal point in answer.</p>
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Find each sum or difference.

1. 
$$\begin{array}{r} \downarrow \\ 2.65 \\ + 13.30 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} \downarrow \\ 14.10 \\ - 3.05 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 744 \\ + 36.2 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 9 \\ - 0.6 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 8.97 \\ + 66 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 100 \\ - 0.22 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 6.8 \\ + 237.29 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 0.5 \\ - 0.23 \\ \hline \end{array}$$

9.  $15.4 - 8 = \underline{\hspace{2cm}}$

10.  $3 - 2.54 = \underline{\hspace{2cm}}$

11.  $1.34 + 4.1 = \underline{\hspace{2cm}}$

12.  $133.01 - 5.6 = \underline{\hspace{2cm}}$

13.  $448 + 1.75 + 80.3 = \underline{\hspace{2cm}}$

14.  $12.3 + 0.61 + 100 = \underline{\hspace{2cm}}$

15. On the 3-days of their vacation, the Davis family traveled 417 mi, 45.3 mi, and 366.9 mi. How far did they travel all together?  
\_\_\_\_\_

16. Etta bought a calculator for \$15. Glenn found the same model for \$9.79. How much more did Etta pay than Glenn did?  
\_\_\_\_\_

Name \_\_\_\_\_

**Review**  
**4**

## Multiplying with Decimals

Find  $4.3 \times 2.7$ .

<p><i>Multiply as you would with whole numbers.</i></p> $\begin{array}{r} 2 \\ 4.3 \\ \times 2.7 \\ \hline 301 \\ 860 \\ \hline 1161 \end{array}$	<p><i>Count the number of decimal places in both factors. The total is the number of decimal places in the product.</i></p> $\begin{array}{r} 4.3 \leftarrow 1 \text{ decimal place} \\ \times 2.7 \leftarrow + 1 \text{ decimal place} \\ \hline 11.61 \leftarrow 2 \text{ decimal places} \end{array}$
---	--

Find each product.

1. 
$$\begin{array}{r} 14 \\ \times 8.8 \\ \hline 112 \\ 1120 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 1.6 \\ \times .9 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 0.4 \\ \times 3.2 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 0.05 \\ \times 0.3 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 2.15 \\ \times 8.3 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 3.3 \\ \times 0.12 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 0.51 \\ \times 4.2 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 1.35 \\ \times 13 \\ \hline \end{array}$$

9.  $23 \times 0.47 =$  \_\_\_\_\_

10.  $0.9 \times 5 =$  \_\_\_\_\_

11.  $168 \times 2.25 =$  \_\_\_\_\_

12.  $0.8 \times 0.11 =$  \_\_\_\_\_

13.  $20 \times 20.2 =$  \_\_\_\_\_

14.  $4.9 \times 0.3 =$  \_\_\_\_\_

15. A roll of paper towels contained 250 sheets. Each sheet was 8.75 inches long. How long was the roll? \_\_\_\_\_

16. Tania bought 3 new sweaters. Each sold for \$19.99. How much did she spend? \_\_\_\_\_

Name \_\_\_\_\_

**Review**

**6**

**Dividing with Decimals**

Find  $36.8 \div 16$ .

$\begin{array}{r} \downarrow \\ 2. \\ 16 \overline{)36.8} \end{array}$ <p>Place the decimal point.          ← Think: <math>20 \overline{)40}</math>          Try 2 in the quotient.</p>	$\begin{array}{r} 2.3 \\ 16 \overline{)36.8} \\ \underline{-32} \phantom{0} \\ 48 \\ \underline{-48} \\ 0 \end{array}$ <p>Multiply <math>2 \times 16</math>.          Subtract. Bring down 8.          Multiply <math>3 \times 16</math>.          Subtract.</p>
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Find each quotient.

1.  $6 \overline{)13.8}$

2.  $6 \overline{)131.4}$

3.  $9 \overline{)141.3}$

4.  $5 \overline{)388.5}$

$$\begin{array}{r} \boxed{1} \boxed{2} \\ \hline \phantom{0} \phantom{0} \\ \hline \phantom{0} \phantom{0} \\ \hline \phantom{0} \phantom{0} \\ \hline \phantom{0} \phantom{0} \end{array}$$

5.  $7 \overline{)669.2}$

6.  $28 \overline{)263.2}$

7.  $41 \overline{)274.7}$

8.  $7 \overline{)34.23}$

9.  $269.12 \div 8 =$  \_\_\_\_\_

10.  $311.56 \div 4 =$  \_\_\_\_\_

11.  $2,229.62 \div 46 =$  \_\_\_\_\_

12.  $1,449.09 \div 81 =$  \_\_\_\_\_

13. A photographer bought 36 rolls of film for \$136.44.  
 What was the price of one roll?

\_\_\_\_\_

14. Four students each ran 100 m in a 400-m relay race.  
 The team's total time was 49.44 sec. Find the average  
 time of each runner.

\_\_\_\_\_

Name \_\_\_\_\_

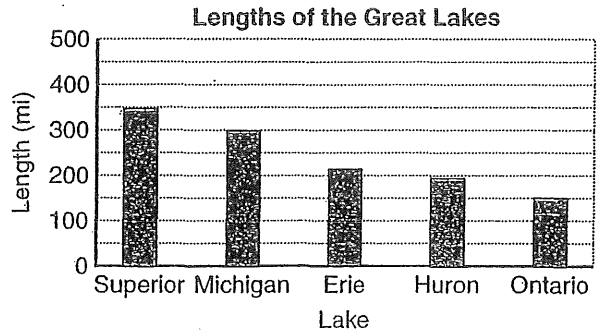
**Review**  
**8**

### Interpreting Data

The bar graph shows the lengths in miles of the Great Lakes. Lengths of bars represent lengths of lakes.

Which is the shortest Great Lake?

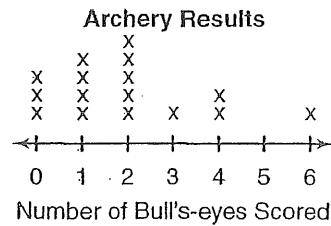
The shortest lake is Lake Ontario.



Use the graphs to answer each question.

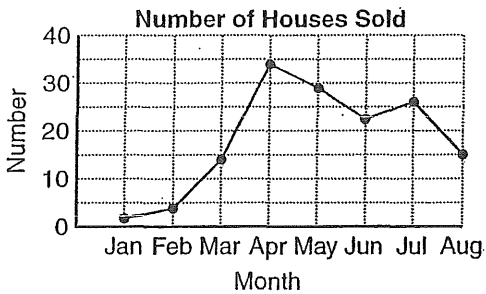
1. How many archers scored 4 bull's eyes?

\_\_\_\_\_



2. What was the most common number of bull's-eyes scored?

\_\_\_\_\_



3. In which month were the most houses sold?

\_\_\_\_\_

4. In which month were about the same number sold as were sold in August?

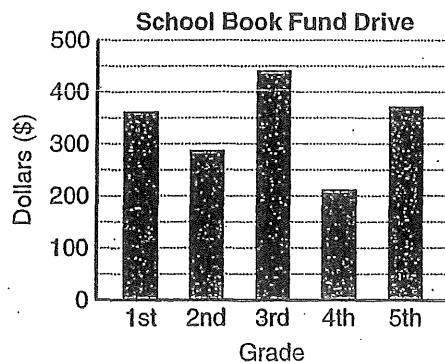
\_\_\_\_\_

5. Which grades raised about the same amount for the school book drive?

\_\_\_\_\_

6. The school's goal was to raise \$1,500. About how much did they raise in all?

\_\_\_\_\_



Name \_\_\_\_\_

**Review**  
**10**

## Adding and Subtracting Fractions

Find  $\frac{2}{3} + \frac{1}{6}$ .

Find  $\frac{1}{4} - \frac{1}{5}$ .

<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>3</td><td>6</td><td>9</td><td>12</td><td>15</td></tr> <tr><td>6</td><td>12</td><td>18</td><td>24</td><td>30</td></tr> </table> <p>Multiples of 3 Multiples of 6</p> <p>The least common denominator is 6.</p> <p>Write equivalent fractions. <math>\frac{2}{3} = \frac{4}{6}</math></p> <p>Add. <math display="block">\begin{array}{r} + \frac{1}{6} = \frac{1}{6} \\ \hline \frac{5}{6} \end{array}</math></p>	3	6	9	12	15	6	12	18	24	30	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>4</td><td>8</td><td>12</td><td>16</td><td>20</td></tr> <tr><td>5</td><td>10</td><td>15</td><td>20</td><td>25</td></tr> </table> <p>Multiples of 4 Multiples of 5</p> <p>The least common denominator is 20.</p> <p>Write equivalent fractions. <math>\frac{1}{4} = \frac{5}{20}</math></p> <p>Subtract. <math display="block">\begin{array}{r} - \frac{1}{5} = \frac{4}{20} \\ \hline \frac{1}{20} \end{array}</math></p>	4	8	12	16	20	5	10	15	20	25
3	6	9	12	15																	
6	12	18	24	30																	
4	8	12	16	20																	
5	10	15	20	25																	

Find each sum or difference.

1.  $\frac{1}{4} + \frac{2}{3} =$  \_\_\_\_\_

4			
3			

2.  $\frac{11}{12} - \frac{5}{6} =$  \_\_\_\_\_

12			
6			

3.  $\frac{1}{3} + \frac{4}{9} =$  \_\_\_\_\_


4.  $\frac{3}{7} + \frac{2}{7} =$  \_\_\_\_\_

5.  $\frac{11}{12} - \frac{5}{12} =$  \_\_\_\_\_

6.  $\frac{1}{2} + \frac{1}{3} =$  \_\_\_\_\_

7.  $\frac{1}{3} - \frac{1}{5} =$  \_\_\_\_\_

8.  $\frac{3}{8} - \frac{1}{6} =$  \_\_\_\_\_

9.  $\frac{3}{5} + \frac{3}{10} =$  \_\_\_\_\_

10.  $\frac{1}{2} + \frac{2}{5} =$  \_\_\_\_\_

11.  $\frac{2}{3} - \frac{1}{4} =$  \_\_\_\_\_

12. Meg practiced the piano for  $\frac{5}{12}$  hr. She did homework for  $\frac{3}{4}$  hr. How much longer did she do homework than she practiced the piano?  
\_\_\_\_\_

Name \_\_\_\_\_

# Adding Mixed Numbers

To add mixed numbers, you can add the fractional parts to the whole number parts, and then simplify.

Find  $2\frac{2}{4} + 3\frac{1}{4}$ .

The fractions have a common denominator. Add the fractions. Then add the whole numbers.

$$\begin{array}{r} 2\frac{2}{4} \\ +3\frac{1}{4} \\ \hline 5\frac{3}{4} \end{array}$$

Find  $3\frac{2}{3} + 4\frac{1}{9}$ .

Write equivalent fractions with the LCD.

$$\begin{array}{r} 3\frac{2}{3} = 3\frac{6}{9} \\ +4\frac{1}{9} = 4\frac{1}{9} \\ \hline \end{array}$$

Add the whole numbers. Add the fractions. Simplify if possible.

$$\begin{array}{r} 3\frac{6}{9} \\ +4\frac{1}{9} \\ \hline 7\frac{7}{9} \end{array}$$

Find  $4 + 3\frac{3}{5}$ .

Add the whole numbers; then add the fraction.

$$\begin{array}{r} 4 \\ +3\frac{3}{5} \\ \hline 7\frac{3}{5} \end{array}$$

Find each sum. Simplify your answer.

1.  $2\frac{1}{5} + 2\frac{3}{5} =$  \_\_\_\_\_ 2.  $4\frac{2}{3} + 1\frac{1}{6} =$  \_\_\_\_\_

3.  $5\frac{3}{5} + \frac{3}{10} =$  \_\_\_\_\_ 4.  $8\frac{5}{8} + 1\frac{5}{12} =$  \_\_\_\_\_

5.  $6\frac{1}{4} + 11\frac{3}{8} =$  \_\_\_\_\_ 6.  $7 + 8\frac{1}{3} =$  \_\_\_\_\_

7. In 2001, the men's indoor pole vault record was  $20\frac{1}{6}$  ft. The women's record for the indoor pole vault was  $15\frac{5}{12}$  ft. What is the combined height of the two records? \_\_\_\_\_

8. **Writing in Math** How high is a stack of library books if one book is  $1\frac{3}{8}$  in. high, the second book is  $1\frac{5}{6}$  in. high, and the third is  $2\frac{1}{3}$  in. high? Explain how you solved this problem.

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Name \_\_\_\_\_

**Review**  
**12**

## Subtracting Mixed Numbers

Subtract  $3\frac{2}{3} - 2\frac{1}{6}$ .

<i>Write equivalent fractions.</i>	<i>Subtract the fractions.</i>	<i>Subtract the whole numbers. Simplify.</i>
$\begin{array}{r} 3\frac{2}{3} = 3\frac{4}{6} \\ - 2\frac{1}{6} = 2\frac{1}{6} \\ \hline \end{array}$	$\begin{array}{r} 3\frac{2}{3} = 3\frac{4}{6} \\ - 2\frac{1}{6} = 2\frac{1}{6} \\ \hline 3\frac{3}{6} \end{array}$	$\begin{array}{r} 3\frac{2}{3} = 3\frac{4}{6} \\ - 2\frac{1}{6} = 2\frac{1}{6} \\ \hline 1\frac{3}{6} = 1\frac{1}{2} \end{array}$
The LCD of 3 and 6 is 6.		

Find each difference. Simplify.

1. 
$$\begin{array}{r} 3\frac{1}{3} = 3\frac{5}{15} \\ - 2\frac{1}{5} = 2\frac{3}{15} \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 2\frac{1}{3} = 2\frac{2}{6} \\ - 1\frac{1}{6} = 1\frac{1}{6} \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 3\frac{2}{3} \\ - 2\frac{1}{3} \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 6\frac{5}{8} \\ - 2\frac{1}{8} \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 3\frac{7}{10} \\ - 1\frac{2}{5} \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 7\frac{7}{8} \\ - 2\frac{3}{4} \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 3\frac{3}{4} \\ - 2\frac{1}{6} \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 5\frac{5}{6} \\ - 1\frac{1}{8} \\ \hline \end{array}$$

9.  $2\frac{2}{3} - 1\frac{1}{4} = \underline{\hspace{2cm}}$

10.  $4\frac{3}{4} - 4\frac{2}{5} = \underline{\hspace{2cm}}$

11.  $2\frac{1}{3} - 1\frac{2}{3} = \underline{\hspace{2cm}}$

12.  $4\frac{4}{9} - 3\frac{2}{3} = \underline{\hspace{2cm}}$

13.  $3\frac{3}{8} - 2\frac{5}{6} = \underline{\hspace{2cm}}$

14.  $5\frac{1}{3} - 2\frac{5}{8} = \underline{\hspace{2cm}}$

15. Greg found two rocks for his collection. One weighed  $4\frac{1}{4}$  lb and the other weighed  $2\frac{7}{8}$  lb. Find the difference in weights. \_\_\_\_\_

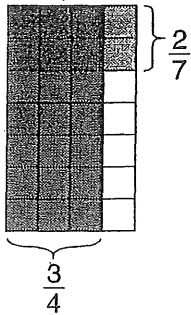
# Multiplying Fractions

R 5-2

Find  $\frac{3}{4} \times \frac{2}{7}$ .

### One Way

Draw a picture. Simplify if possible.



6 of the 28 squares have overlapping shading.

So,  $\frac{3}{4} \times \frac{2}{7} = \frac{6}{28}$ .

Simplify  $\frac{6}{28}$  to  $\frac{3}{14}$ .

### Another Way

Multiply the numerators and denominators. Simplify if possible.

$$\begin{aligned} & \frac{3}{4} \times \frac{2}{7} \\ &= \frac{3 \times 2}{4 \times 7} = \frac{6}{28} \\ &= \frac{3}{14} \end{aligned}$$

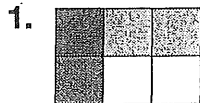
### Simplify First

Find the GCF of any numerator and any denominator.

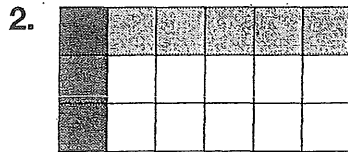
The GCF of 2 and 4 is 2. Divide 2 and 4 by the GCF.

$$\frac{3}{\cancel{4}^2} \times \frac{\cancel{2}_1}{7} = \frac{3}{14}$$

Write an equation for each picture.



\_\_\_\_\_



\_\_\_\_\_

Find each product. Simplify if possible.

3.  $\frac{6}{8} \times \frac{1}{3} =$  \_\_\_\_\_

4.  $\frac{5}{6} \times \frac{7}{10} =$  \_\_\_\_\_

5.  $\frac{4}{5} \times \frac{3}{8} =$  \_\_\_\_\_

6.  $\frac{1}{2} \times \frac{4}{9} =$  \_\_\_\_\_

7. **Number Sense** Can you simplify before multiplying  $14 \times \frac{25}{27}$ ? Explain.

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\_\_\_\_\_

Name \_\_\_\_\_

# Multiplying Mixed Numbers

R 5-4

How to find the product of two mixed numbers:

Find  $3\frac{2}{3} \times 4\frac{1}{2}$ .

### Step 1

Estimate by rounding.

$$\begin{array}{r} 3\frac{2}{3} \times 4\frac{1}{2} \\ \downarrow \quad \downarrow \\ 4 \times 5 = 20 \end{array}$$

Then write each mixed number as an improper fraction.

$$\begin{array}{r} 3\frac{2}{3} \times 4\frac{1}{2} \\ \downarrow \quad \downarrow \\ \frac{11}{3} \times \frac{9}{2} \end{array}$$

### Step 2

Look for common factors and simplify.

$$\frac{11}{\cancel{3}_1} \times \frac{\cancel{9}^3}{2} = \frac{11}{1} \times \frac{3}{2}$$

### Step 3

Multiply. Write the product as a mixed number.

$$\frac{11}{1} \times \frac{3}{2} = \frac{33}{2} = 16\frac{1}{2}$$

$16\frac{1}{2}$  is close to 20, so the answer is reasonable.

Find each product. Simplify if possible.

1.  $2\frac{3}{4} \times 3\frac{1}{2} =$  \_\_\_\_\_

2.  $2\frac{1}{5} \times 2\frac{2}{3} =$  \_\_\_\_\_

3.  $6 \times 3\frac{1}{4} =$  \_\_\_\_\_

4.  $1\frac{2}{5} \times 3\frac{1}{4} =$  \_\_\_\_\_

5.  $4\frac{1}{2} \times 16 =$  \_\_\_\_\_

6.  $1\frac{3}{8} \times 2\frac{1}{2} =$  \_\_\_\_\_

7. **Number Sense** Is  $2 \times 17\frac{5}{6}$  greater than or less than 36? Explain.

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11

## Answers and Options for Further Review

### REVIEW 1

If students need more help on adding and subtracting whole numbers, use F36 and F37 in the Math Diagnosis and Intervention System.

- |               |        |           |        |
|---------------|--------|-----------|--------|
| 1. 201        | 2. 615 | 3. 1,109  | 4. 179 |
| 5. 198        | 6. 980 | 7. 564    | 8. 90  |
| 9. 31         |        | 10. 109   |        |
| 11. 279       |        | 12. 221   |        |
| 13. 588       |        | 14. 1,301 |        |
| 15. 1,296     |        | 16. 2,109 |        |
| 17. 491 cards |        |           |        |

### REVIEW 2

If students need more help on adding and subtracting decimals, use I17 in the Math Diagnosis and Intervention System.

- |              |            |
|--------------|------------|
| 1. 15.95     | 2. 11.05   |
| 3. 780.2     | 4. 8.4     |
| 5. 74.97     | 6. 99.78   |
| 7. 244.09    | 8. 0.27    |
| 9. 7.4       | 10. 0.46   |
| 11. 5.44     | 12. 127.41 |
| 13. 530.05   | 14. 112.91 |
| 15. 829.2 mi | 16. \$5.21 |

### REVIEW 3

If students need more help on multiplying whole numbers, use G59 in the Math Diagnosis and Intervention System.

- |        |          |
|--------|----------|
| 1. 646 | 2. 2,408 |
| 3. 328 | 4. 1,196 |

- |               |              |
|---------------|--------------|
| 5. 9,072      | 6. 7,770     |
| 7. 39,195     | 8. 74,304    |
| 9. 5,940      | 10. 8,800    |
| 11. 20,979    | 12. 49,680   |
| 13. 440       | 14. 640      |
| 15. 3,620     | 16. 4,896 lb |
| 17. 504 miles |              |

### REVIEW 4

If students need more help on multiplying decimals, use I20 through I23 in the Math Diagnosis and Intervention System.

- |                 |             |
|-----------------|-------------|
| 1. 123.2        | 2. 14.4     |
| 3. 1.28         | 4. 0.015    |
| 5. 17.845       | 6. 0.396    |
| 7. 2.142        | 8. 17.55    |
| 9. 10.81        | 10. 4.5     |
| 11. 378         | 12. 0.088   |
| 13. 404         | 14. 1.47    |
| 15. 2,187.5 in. | 16. \$59.97 |

### REVIEW 5

If students need more help on dividing whole numbers, use G52, G54, G66, and G67 in the Math Diagnosis and Intervention System.

- |                        |         |
|------------------------|---------|
| 1. 19                  | 2. 66   |
| 3. 83                  | 4. 226  |
| 5. 319                 | 6. 35   |
| 7. 47                  | 8. 35   |
| 9. 58                  | 10. 83  |
| 11. 40                 | 12. 145 |
| 13. 102                | 14. 365 |
| 15. 19 points per game |         |

### REVIEW 6

If students need more help on dividing decimals, use I26 in the Math Diagnosis and Intervention System.

1. 2.3
2. 21.9
3. 15.7
4. 77.7
5. 95.6
6. 9.4
7. 6.7
8. 4.89
9. 33.64
10. 77.89
11. 48.47
12. 17.89
13. \$3.79 per roll
14. 12.36 sec

### REVIEW 7

If students need more help on problem solving, use M10 and M12 in the Math Diagnosis and Intervention System.

1. division; 33 teams
2. addition; 450.25 lb
3. subtraction; \$48.05
4. division; \$0.60 per minute
5. multiplication; \$4.74

### REVIEW 8

If students need more help on interpreting data, use L3, L5, and L25 in the Math Diagnosis and Intervention System.

1. 2 archers
2. 2 bull's eyes
3. April
4. March
5. 1st and 5th
6. About \$1,600–\$1,700

### REVIEW 9

If students need more help on lines and angles, use K46 and K49 in the Math Diagnosis and Intervention System.

1. intersecting and perpendicular
2. parallel
3. intersecting
4. straight
5. obtuse
6. acute
7. right
8. obtuse
9. right
10. straight
11. acute

### REVIEW 10

If students need more help on adding and subtracting fractions, use H29 and H31 in the Math Diagnosis and Intervention System.

1.  $\frac{11}{12}$
2.  $\frac{1}{12}$
3.  $\frac{7}{9}$
4.  $\frac{5}{7}$
5.  $\frac{1}{2}$
6.  $\frac{5}{6}$
7.  $\frac{2}{15}$
8.  $\frac{5}{24}$
9.  $\frac{9}{10}$
10.  $\frac{9}{10}$
11.  $\frac{5}{12}$
12.  $\frac{1}{3}$  hour



# Reteaching

Name \_\_\_\_\_

## Multiplying Fractions

R 5-2

Find  $\frac{3}{4} \times \frac{2}{7}$ .

### One Way

Draw a picture. Simplify if possible.



6 of the 28 squares have overlapping shading.

So,  $\frac{3}{4} \times \frac{2}{7} = \frac{6}{28}$ .

Simplify  $\frac{6}{28}$  to  $\frac{3}{14}$ .

### Another Way

Multiply the numerators and denominators. Simplify if possible.

$$\begin{aligned} \frac{3}{4} \times \frac{2}{7} &= \frac{3 \times 2}{4 \times 7} = \frac{6}{28} \\ &= \frac{3}{14} \end{aligned}$$

### Simplify First

Find the GCF of any numerator and any denominator.

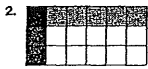
The GCF of 2 and 4 is 2. Divide 2 and 4 by the GCF.

$$\frac{3}{4} \times \frac{2}{7} = \frac{3}{2} \times \frac{1}{7} = \frac{3}{14}$$

Write an equation for each picture.



$$\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$$



$$\frac{1}{6} \times \frac{1}{3} = \frac{1}{18}$$

Find each product. Simplify if possible.

3.  $\frac{5}{8} \times \frac{1}{3} = \frac{5}{24}$

4.  $\frac{5}{8} \times \frac{7}{10} = \frac{7}{16}$

5.  $\frac{4}{5} \times \frac{3}{8} = \frac{3}{10}$

6.  $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

7. **Number Sense** Can you simplify before multiplying  $14 \times \frac{25}{27}$ ? Explain.

**No, because there is no common factor to divide by**

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