

**Students Entering  
Sixth Grade**

**Summer Math Packet**

Name \_\_\_\_\_

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> $\begin{array}{r} \downarrow \phantom{0} \\ 1.7 \\ + 2.45 \\ \hline \end{array}$ $\begin{array}{r} \phantom{0}^1 \\ 1.70 \leftarrow \text{Write zeros to} \\ + 2.45 \phantom{0} \leftarrow \text{show place value.} \\ \hline 4.15 \end{array}$ <p style="text-align: center;">↑ Place decimal point in answer.</p>	<p><i>Line up the decimal points.</i></p> $\begin{array}{r} \phantom{0}^5 \phantom{0}^{15} \\ \downarrow \phantom{0} \\ 36.57 \\ - 4.6 \\ \hline \end{array}$ $\begin{array}{r} \phantom{0}^5 \phantom{0}^{15} \\ 36.57 \\ - 4.60 \leftarrow \text{Write zeros to} \\ \hline 31.97 \phantom{0} \leftarrow \text{show place value.} \end{array}$ <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. 
$$\begin{array}{r} \phantom{0}^1 \\ 14.10 \\ - 3.05 \\ \hline \end{array}$$

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?

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## 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> $\begin{array}{r} 4.3 \leftarrow 1 \text{ decimal place} \\ \times 2.7 \leftarrow + 1 \text{ decimal place} \\ \hline 11.61 \leftarrow 2 \text{ decimal places} \end{array}$
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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? \_\_\_\_\_

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## 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></p> <p>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.  $269.12 \div 8 = \underline{\hspace{2cm}}$

10.  $311.56 \div 4 = \underline{\hspace{2cm}}$

11.  $2,229.62 \div 46 = \underline{\hspace{2cm}}$

12.  $1,449.09 \div 81 = \underline{\hspace{2cm}}$

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.

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Name \_\_\_\_\_

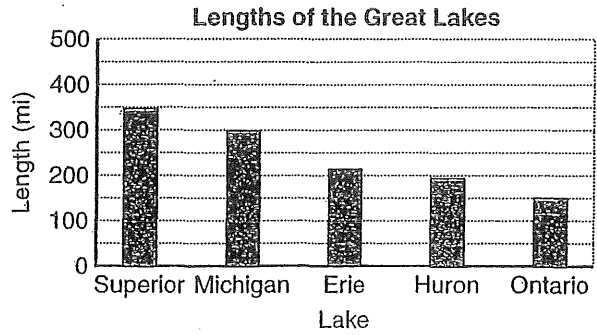
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### Interpreting Data

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.

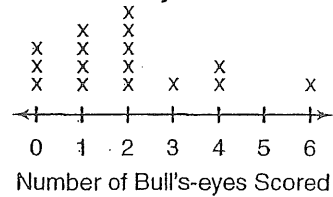


Use the graphs to answer each question.

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

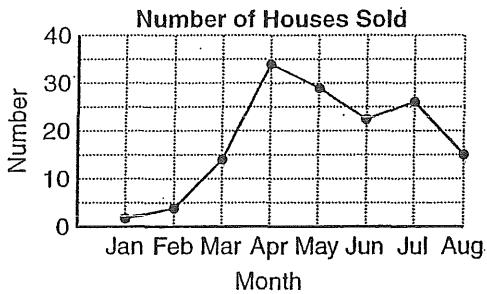
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Archery Results



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?

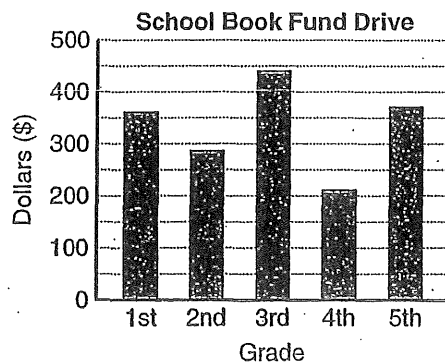
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5. Which grades raised about the same amount for the school book drive?

\_\_\_\_\_

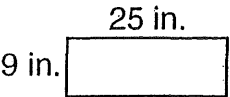

6. The school's goal was to raise \$1,500. About how much did they raise in all?

\_\_\_\_\_

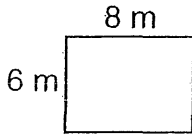


# Perimeter

Perimeter is the distance around a shape.

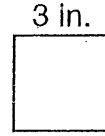
<p>You can add the lengths of all the sides or you can multiply the sum of the length and the width by 2 to find the perimeter of a rectangle.</p> <div style="text-align: center;">  </div> <p><math>p = 25 \text{ in.} + 9 \text{ in.} + 25 \text{ in.} + 9 \text{ in.} = 68 \text{ in.}</math>              or <math>p = 2 \times (25 \text{ in.} + 9 \text{ in.}) = 68 \text{ in.}</math></p>	<p>If only one side of a figure is given, then all sides have the same length.</p> <div style="text-align: center;">  </div> <p><math>p = 5 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} = 20 \text{ cm}</math>              or <math>p = 4 \times 5 \text{ cm} = 20 \text{ cm}</math></p>
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1. Find the perimeter of the rectangle.



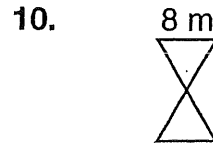
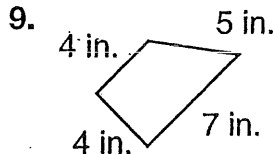
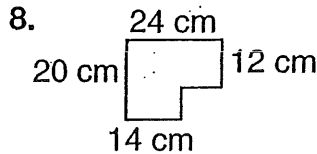
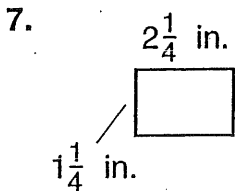
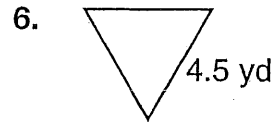
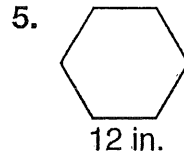
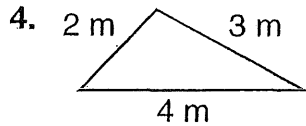
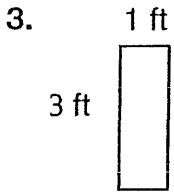
$p = \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} \text{ m}$

2. Find the perimeter of the square.



$p = \underline{\quad} \times \underline{\quad} = \underline{\quad} \text{ in.}$

Find the perimeter of each figure.



11. A flower garden is in the shape of an equilateral triangle.

Each side measures  $15\frac{3}{8}$  ft. What is the garden's perimeter? \_\_\_\_\_

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# Area of Squares and Rectangles

R 10-8

You can use formulas to find the area of a square or rectangle.

Find the area of a square that is 7.2 m on each side.

Use the formula  $A = s^2$ .

$$A = (7.2)^2$$

$$A = 51.84$$

The area is 51.84 m<sup>2</sup>.

Find the area of a rectangle with a length ( $l$ ) of 4 cm and a width ( $w$ ) of 12 cm.

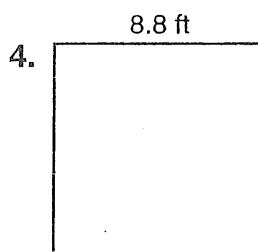
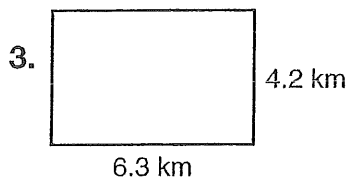
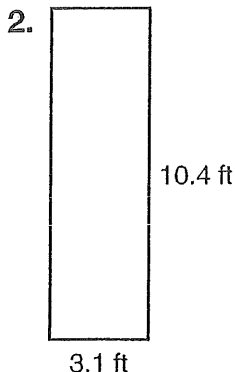
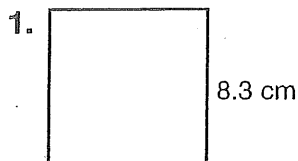
Use the formula  $A = l \times w$ .

$$A = 4 \times 12$$

$$A = 48$$

The area is 48 cm<sup>2</sup>.

Find the area of each figure.



5. **Reasoning** What is the length of a rectangle that has an area of 120 ft<sup>2</sup> and a width of 8 ft? \_\_\_\_\_

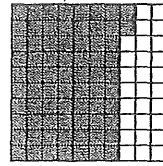
6. **Number Sense** What is the area of a square that is 12.4 cm on each side? \_\_\_\_\_

Name \_\_\_\_\_

# Fractions, Decimals, and Percents

R 7-2

Fractions, decimals, and percents all name parts of a whole. The grid to the right has 72 out of 100 squares shaded.



72 out of 100 are shaded. As a fraction, that is  $\frac{72}{100}$ .  
As a decimal, that is 0.72. As a percent, that is 72%.

Write 40% as a fraction and decimal.

$$40\% = \frac{40}{100} = 0.40$$

The decimal point moves two places to the left.

Write 0.3% as a fraction and decimal.

$$0.3\% = \frac{0.3}{100} = 0.003$$

The decimal point moves two places to the left. Fill in any spaces with zeros.

Write 0.47 as a fraction and percent.

$$0.47 = \frac{47}{100} = 47\%$$

Write  $\frac{3}{4}$  as a decimal and percent.

You can use a proportion:

$$\frac{3}{4} = \frac{n}{100}$$

$$\frac{4n}{4} = \frac{300}{4}$$

$$n = 75$$

$$\text{So, } \frac{3}{4} = 0.75 = 75\%.$$

Write each in two other ways.

1.  $\frac{2}{10}$  \_\_\_\_\_; \_\_\_\_\_

2.  $\frac{23}{100}$  \_\_\_\_\_; \_\_\_\_\_

3.  $\frac{7}{10}$  \_\_\_\_\_; \_\_\_\_\_

4. 97% \_\_\_\_\_; \_\_\_\_\_

5. 16% \_\_\_\_\_; \_\_\_\_\_

6. 52% \_\_\_\_\_; \_\_\_\_\_

7. 0.04 \_\_\_\_\_; \_\_\_\_\_

8. 0.35 \_\_\_\_\_; \_\_\_\_\_

9. **Number Sense** Sheila got 87% of the problem correct.  
Patrick got  $\frac{91}{100}$  correct. Who scored higher? \_\_\_\_\_