

ST. MARK SCHOOL

2009

2009 Nationally Recognized Blue Ribbon School of Excellence

St. Mark School Students Entering Grades 1 through 8 Summer Work

i-Ready for Returning Students

Returning St. Mark School students are strongly encouraged to continue on his or her i-Ready Reading and Math Learning Paths. Students should progress on each content area for at least 30 minutes per week. Returning students entering Grades 1 & 2 can log-on to i-Ready using his or her Clever Badge that was provided by the classroom teacher. Returning students entering Grades 3 through 8 can log-on to Clever and i-Ready by using her or her school Google account username and password. *i-Ready access will be paused between 7/28 and 8/25*.

The website address is: www.clever.com/in/diobpt

Students who are new to St. Mark School will be introduced to Clever and i-Ready in September.

Reading and Math Choice Boards

New and returning students are encouraged to complete some or all of the activities on the Summer Reading and Math Choice Boards. While it's not necessary to finish every activity, students should turn in whatever they have completed to earn credit toward a class reward.

Choice Boards are due by Wednesday, September 17th.

Students Entering Middle School Math Packet

New and returning students entering Grades 6 through 8 will not receive a Math Choice Board. Instead, they are encouraged to complete the Summer Math Packet. It's important that students do their best on this work to help them feel confident and prepared for the challenges of the upcoming school year.

Math Packets are due by Wednesday, September 17th.

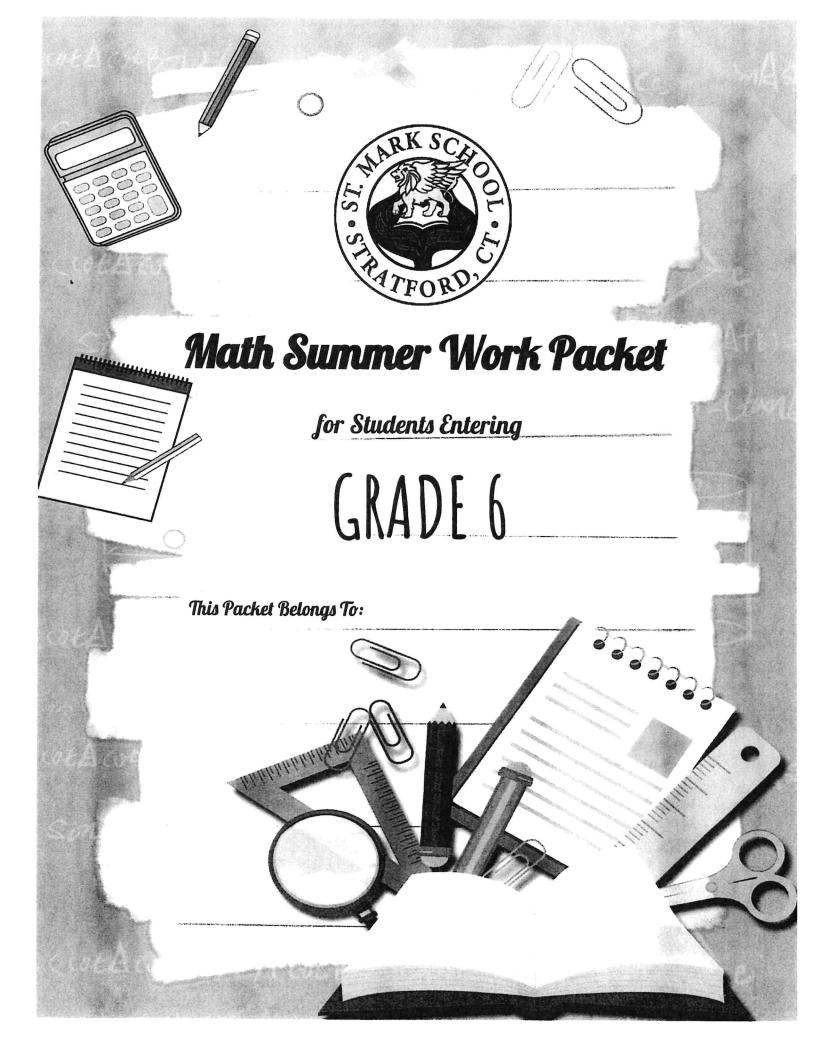
St. Mark School is a Christ-centered learning environment that teaches Gospel values and fosters academic excellence. Aware of the dignity and uniqueness of all students, we are committed to the spiritual, intellectual, moral, social, and physical development of each child.



Summer Reading Choice Board

June and July to continue working on your learning path. Return the form to your teacher by Wednesday, September 17th to earn a special class reward. There is learned last year in school. As you finish the activity, write down the title of the book that you have read in the box. If you need more room to complete the activity use another paper and attach to this packet. If you are reading a chapter book, you can write in multiple boxes. Returning students will have access to iReady in For Students Entering Grades 5-8: Below is a grid of reading activities for you to complete over the summer so that you can continue to practice what you no minimum number of squares to complete, just complete as much as you can!

Read a book with a Read a book from a genre you normally don't read. Title:
Read a book by an author you've never read before. Title:
How does the book you're what are 3 connections reading connect to your you have to the main character in your book?
Reread a book you loved. Title: Title:
Find a quote/element of Draw a new book cover for literature in the book and a book you read. Attach to make a poster explaining paper. why you chose it. Title:





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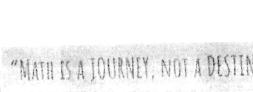
A Note from the Math Teacher

Dear Future Math Student & Parents/Guardians,

Enjoy your Summer! The attached packet provides a range of activities that review and expand on the math concepts your child has learned. It is designed to be worked 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.

Work hard a little bit of the time to keep up those math skills...at the same time...have fun a lot of the time to give yourself a break!

Yours in Christ, Mr. Patrick Fallon, M.Ed.



Name ______

Review 2

Adding and Subtracting Decimals

Find 1.7 + 2.45.

Find 36.57 - 4.6.

Line up the decimal points.

$$\uparrow$$
 1
1.7 1.70 \rightarrow Write zeros to
 $+2.45$ $+2.45$ show place value.
4.15

♣ Place decimal point in answer. Line up the decimal points.

↑ Place decimal point in answer.

Find each sum or difference.

7.
$$6.8$$

 $+237.29$

10.
$$3 - 2.54 =$$

- 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?

Review 1

Multiplying with Decimals

Find 4.3×2.7 .

Multiply as you would with whole numbers.
2 4 3

301 860

1161

Count the number of decimal places in both factors. The total is the number of decimal places in the product.

$$4.3 \leftarrow 1$$
 decimal place
 $\times 2.7 \leftarrow + 1$ decimal place
 $11.61 \leftarrow 2$ decimal places

Find each product.

1.
$$14$$
 $\times 8.8$
 112
 1120

4.
$$0.05 \times 0.3$$

7.
$$0.51 \times 4.2$$

10.
$$0.9 \times 5 =$$

9.
$$23 \times 0.47 =$$
 _____ 10. $0.9 \times 5 =$ ____ 11. $168 \times 2.25 =$ ____

- 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

Dividing with Decimals

Find 36.8 ÷ 16.

Place the decimal point. 2. 1 6)3 6 . 8 Try 2 in the quotient.	2.3 16)36.8 -32 Multiply 2 × 16. 4 8 Subtract. Bring down 8. -48 Multiply 3 × 16. 0 Subtract.
---	--

Find each quotient.

2. 6)131.4 **3.** 9)141.3 **4.** 5)388.5

- 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

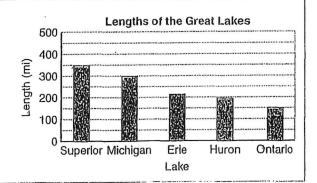
Interpreting Data

1)

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?

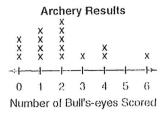
The shortest lake is Lake Ontario.



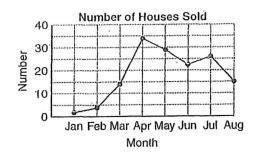
Use the graphs to answer each question.

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

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



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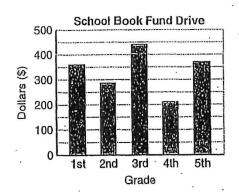


3. In which month were the most houses sold?

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?

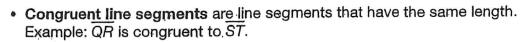




R 9-1

Geometric Ideas

- A line is a straight path of points that goes on forever in two directions. Examples: AS, GK.
- A ray is a part of a line with one endpoint, extending forever in only one <u>direction</u>.
 Examples: FD, FB.
- A line segment is part of a line with two endpoints.
 Examples: CF, MQ.
- A midpoint is the point halfway between the endpoints of a line segment. Example: Point L is halfway between points J and M on JM.

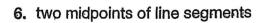


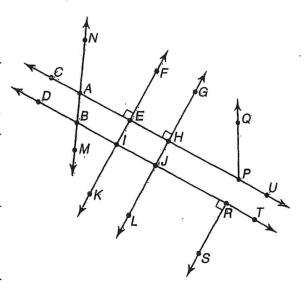
• Parallel lines are in the same plane but do not intersect. Example: \overrightarrow{AS} is parallel to \overrightarrow{BT} .



Use the diagram at the right. Name the following.

- 1. three line segments
- 2. two parallel lines
- 3. two lines that intersect \overrightarrow{DT}
- 4. two congruent line segments
- 5. two lines perpendicular to \overrightarrow{BR}









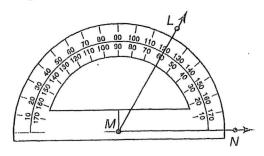
Measuring and Drawing Angles

m J-A

How to measure an angle:

Step 1 Place the protractor's center on the angle's vertex.

Step 2 Place the 0° mark on one side of the angle.



LMN - 60"

Step 3 Use the scale beginning with the 0° mark to read the measurement where the other side of the angle crosses the protractor.

How to draw an angle:

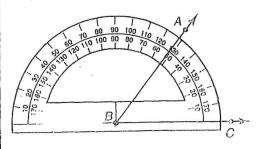
Draw an angle of 52°.

Step 1 Draw a ray.

Step 2 Place the protractor's center on the endpoint. Line up the ray with the 0° mark.

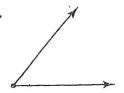
Step 3 Using the scale with the 0° mark, place a point at 52°.

Step 4 Draw the other ray.



Classify each angle as acute, right, obtuse, or straight. Then measure the angle.

1.



2.



Draw an angle with each measure.

Adding and Subtracting Fractions

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

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

3	6	9	12	15	Multiples of 3
6	12	18	24	30	Multiples of 6

The least common denominator is 6.

Write equivalent fractions.

Add.

$$\begin{array}{r}
 3 - 6 \\
 + \frac{1}{6} = \frac{1}{6} \\
 \hline
 5 \\
 \hline
 6
 \end{array}$$

Multiples of 4 Multiples of 5

The least common denominator is 20.

Write equivalent fractions.

Subtract.

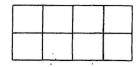
$$\frac{\frac{1}{4} = \frac{5}{20}}{-\frac{1}{5} = \frac{4}{20}}$$

Find each sum or difference.

1.
$$\frac{1}{4} + \frac{2}{3} =$$
 2. $\frac{11}{12} - \frac{5}{6} =$ _____

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

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



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

4.
$$\frac{3}{7} + \frac{2}{7} =$$
 5. $\frac{11}{12} - \frac{5}{12} =$ 6. $\frac{1}{2} + \frac{1}{3} =$ 7. $\frac{1}{3} - \frac{1}{5} =$

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

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

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

8.
$$\frac{3}{8} - \frac{1}{6} =$$
 9. $\frac{3}{5} + \frac{3}{10} =$ 10. $\frac{1}{2} + \frac{2}{5} =$ 11. $\frac{2}{3} - \frac{1}{4} =$

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?

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.

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

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

Write equivalent fractions with the LCD.

$$3\frac{2}{3} = 3\frac{6}{9} + 4\frac{1}{9} = 4\frac{1}{9}$$

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

$$3\frac{6}{9} + 4\frac{1}{9}$$

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

Add the whole numbers; then add the fraction.

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

ENTERED AND TO THE STORE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE STORE OF THE STO 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.
$$6\frac{1}{4} + 11\frac{3}{8} =$$

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.

Subtracting Mixed Numbers

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

Write equivalent fractions.

$$3\frac{2}{3} = 3\frac{4}{6}$$
$$-2\frac{1}{6} = 2\frac{1}{6}$$

The LCD of 3 and 6 is 6.

Subtract the fractions.

$$3\frac{2}{3} = 3\frac{4}{6}$$
$$-2\frac{1}{6} = 2\frac{1}{6}$$
$$\frac{3}{6}$$

Subtract the whole numbers. Simplify.

$$3\frac{2}{3} = 3\frac{4}{6}$$

$$-2\frac{1}{6} = 2\frac{1}{6}$$

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

Find each difference. Simplify.

1.
$$3\frac{1}{3} = 3\frac{5}{15}$$

$$-2\frac{1}{5} = 2\frac{3}{15}$$
2.
$$2\frac{1}{3} = 2\frac{2}{6}$$

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

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

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

4.
$$6\frac{5}{8}$$
 $-2\frac{1}{8}$

5.
$$3\frac{7}{10}$$
 $-1\frac{2}{5}$

6.
$$7\frac{7}{8}$$
 $-2\frac{3}{4}$

7.
$$3\frac{3}{4}$$
 $-2\frac{1}{6}$

8.
$$5\frac{5}{6}$$
 $-1\frac{1}{8}$

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

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

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

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

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

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

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.



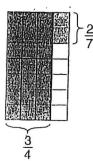
Multiplying Fractions



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.

$$\frac{\frac{3}{4} \times \frac{2}{7}}{\frac{3 \times 2}{4 \times 7}} = \frac{6}{28}$$
$$= \frac{3}{14}$$

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.

$$\frac{3}{\cancel{X}} \times \frac{\cancel{2}}{7} = \frac{3}{14}$$



FREEDERFEERE CONTRACTOR CO Write an equation for each picture.





Find each product. Simplify if possible.

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

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.

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.

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

$$\downarrow \qquad \qquad \downarrow$$

$$4 \times 5 = 20$$

Then write each mixed number as an improper fraction.

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

$$\downarrow \qquad \qquad \downarrow$$

$$\frac{11}{3} \times \frac{9}{2}$$

Step 2

Look for common factors and simplify.

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

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

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

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

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

5.
$$4\frac{1}{2} \times 16 =$$
 6. $1\frac{3}{8} \times 2\frac{1}{2} =$ **6.**

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

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Name	*	- An	•	
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Review 14

Problem Solving: Strategies

0

A computer store has 25 printers and computers. There are 7 more printers than computers. How many of each are there?

	Printers	Computers	Check
Guess 1	20	. 5	20 - 5 = 1
Guess 2	14	11	14 - 11 = 3
Guess 3	16	9	$16 - 9 = 7 \checkmark$

Solution: There are 16 printers and 9 computers.

Problem Solving Strategies

- Act It Out
- Draw a Picture
- Look For a Pattern
- Try, Check, and Revise
- Make an Organized List
- Make a Table
- Solve a Simpler Problem.
- Work Backward

Use any strategy to solve.

- 1. At the veterinarian's office, Terri learned that her dog weighed 4 times as much as her cat. Together the pets weighed 40 lbs. How much did the dog weigh?
- 2. Yasmin arrived home from play practice at 4:25 p.m. The walk home took 15 minutes. Practice began 20 minutes after the final bell and lasted for a half hour. When did school end?

(()

- Vanessa, Diego, Rose and Randy stood in line for lunch. Rose was just behind Vanessa. Diego was not next to Rose or Randy. Write the line order.
- 4. Students played dodge ball and volleyball for 45 minutes. They played dodge ball for 11 more minutes than they played volleyball. How long did they play dodge ball?
- 5. Mr. Jones has 4 shirts, 2 ties, and 3 pair of pants. How many days in a row can he wear a different outfit?



Customary Measurement

R 10-1

Units of Length

foot (ft)
$$1 \text{ ft} = 12 \text{ in.}$$

yard (yd)
$$1 \text{ yd} = 3 \text{ ft}$$

$$1 \text{ yd} = 36 \text{ in}.$$

mile (mi)
$$1 \text{ mi} = 5,280 \text{ ft}$$

$$1 \text{ mi} = 1,760 \text{ yd}$$

Units of Capacity

$$cup(c)$$
 1 $c = 8$ fluid ounces (oz)

pint (pt)
$$1 \text{ pt} = 2 \text{ c}$$

quart (qt)
$$1 \text{ qt} = 2 \text{ pt}$$

How to change from one unit of measurement to another:

To change from larger units to smaller units in the customary system, you have to multiply.

$$1 \text{ yd} = 3 \text{ ft}$$

$$120 \times 3 \text{ ft} = 360 \text{ ft}$$

$$120 \text{ yd} = 360 \text{ ft}$$

To change from smaller units to larger ones, you have to divide.

$$1c = 8oz$$

$$256 \div 8 = 32$$

$$256 \text{ oz} = 32 \text{ c}$$

Complete.

7.
$$2T = _____lb$$

17. Reasoning A vendor at a festival sells soup for \$1.25 per cup or \$3.75 per quart. Which is the better buy?

Metric Measurement

R 10-2

Changing from one metric unit to another:

To change from a larger unit to a smaller unit, multiply by a power of ten.

$$3.8 L = _{mL}$$

A liter is a larger unit than a milliliter. To change from liters to milliliters, multiply.

$$1 L = 1,000 mL$$

$$3.8 \times 1,000 = 3,800$$

$$3.8 L = 3,800 mL$$

To change from a smaller unit to a larger unit, divide by a power of ten.

$$100 \text{ m} =$$
____ km

The meter is a smaller unit than the kilometer. To change from meters to kilometers, divide.

$$1,000 \text{ m} = 1 \text{ km}$$

$$100 \div 1000 = 0.1$$

$$100 \, \text{m} = 0.1 \, \text{km}$$

Name the most appropriate metric unit for each measurement.

- 1. mass of a cow
- 2. length of a carrot

3. capacity of a thimble

Complete.

9.
$$7,658 g = ____ kg$$

18. Reasoning It is recommended that people have 1 g of calcium each day. How many milligrams of calcium is that?

10

Perimeter



Perimeter is the distance around a shape.

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.

$$p = 25 \text{ in.} + 9 \text{ in.} + 25 \text{ in.} + 9 \text{ in.} = 68 \text{ in.}$$

or $p = 2 \times (25 \text{ in.} + 9 \text{ in.}) = 68 \text{ in.}$

If only one side of a figure is given, then all sides have the same length.

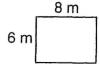


$$p = 5 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} = 20 \text{ cm}$$

or $p = 4 \times 5 \text{ cm} = 20 \text{ cm}$

1. Find the perimeter of the rectangle.

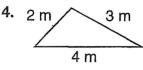




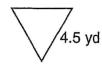


Find the perimeter of each figure.

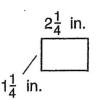
3.

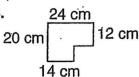


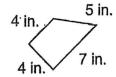




7.







10.



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?



Area of Squares and Rectangles

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^2 .

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

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

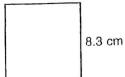
$$A = 4 \times 12$$

$$A = 48$$

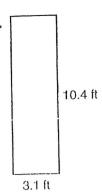
The area is 48 cm².

Find the area of each figure.

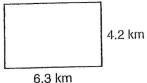
1.



2.



3.



4.

- 5. Reasoning What is the length of a rectangle that has an area of 120 ft² and a width of 8 ft?
- 6. Number Sense What is the area of a square that is 12.4 cm on each side?

Review

Ratio and Proportion

You can use ratios to compare two quantities.



2 balloons to 3 sticks

You can write ratios as:

words

2 to 3

with a colon 2:3

as a fraction $\frac{2}{3}$

A statement that two ratios are equal is called a proportion.





 $\frac{1 \text{ balloon}}{2 \text{ sticks}} = \frac{2 \text{ balloons}}{4 \text{ sticks}}$

$$\frac{1}{2} = \frac{1 \times 2}{2 \times 2} = \frac{2}{4}$$

$$\frac{1}{2} = \frac{2}{4}$$
 is a proportion.

Write each ratio. Use words, a colon, or a fraction.

1. Write the ratio of squares to circles.



2. The Computer Club has 20 girls and 15 boys. Write the ratio of girls to boys in the club.



Tell if the ratios form a proportion. Write yes or no.

- 3. $\frac{3}{4} \frac{9}{12}$ 4. $\frac{1}{3} \frac{2}{9}$ 5. $\frac{3}{5} \frac{6}{10}$ 6. $\frac{4}{6} \frac{8}{18}$ ----

Complete each table so that all ratios are equal.

- 7. 3 12 5
- 21 42 63
- 10 50
- 10. The ratio of the width to the length of a painting is 3 to 7. If the painting is 42 in. long, how wide is it?
- 11. The ratio of the number of moons the planet Neptune has to the number that Saturn has is 4 to 9. Saturn has 18 moons. How many moons does Neptune have?



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 0.47 as a fraction and percent.

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

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

You can use a proportion:

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

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

$$n = 75$$

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

Write each in two other ways.

- 5. 16%
- 7. 0.04

- 4. 97%
- 6. 52%
- 8. 0.35
- 9. Number Sense Sheila got 87% of the problem correct. Patrick got 91 correct. Who scored higher?

941 147		
Name		
Ivallie		
	and the second s	

Review

Probability



What is the probability of spinning an A?

- 2 ← number of As
- 4 ← total possible outcomes

The probability is $\frac{2}{4}$ or $\frac{1}{2}$.



What is the probability of spinning a B?

- $\frac{1}{4}$ + number of Bs + total possible outcomes

The probability is $\frac{1}{4}$.

Complete.

1. What is the probability of spinning a 1?

→ number of 1s

total possible outcomes

The probability is _____.



2. What is the probability of spinning a 3?

→ number of 3s

total possible outcomes

The probability is _____.

Give the probability of each outcome.



3. spinning an N _____ 4. spinning an S ____

5. spinning an S or G _____ 6. spinning an S, G, or N

A number cube has 6 sides numbered 1, 2, 3, 4, 5, and 6. Find each probability.

7. rolling a 3 _____

8. rolling an even number

9. rolling 3, 4, 5, or 6 _____

10. rolling anything but 1 _____

11. A hat contains 26 cards, each printed with a different letter of the alphabet. What is the probability that you will pick a vowel (A, E, I, O, U, or Y)?

12. There are 6 blue socks, 7 white socks, and 8 gray socks in a drawer. If you pick a sock without looking, what is the probability that it will be blue?



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