

Addition

USE THE INFORMATION IN THE TABLE TO ANSWER THE QUESTIONS
Walking Minutes Between Landmarks in Dane County

	James Madison Park	Henry Vilas Zoo	Pheasant Branch Conservancy
The Capitol	11	39	155
Olin Park	41	33	170
Dane County Airport	86	132	205
Maple Bluff	67	113	196
McFarland	274	165	300
Waunakee	223	254	135

1. If you walk from James Madison Park to McFarland and then from McFarland to Henry Vilas Zoo, how many minutes would it take you?

2. Which two landmarks are farther apart in walking distance: Henry Vilas Zoo and Maple Bluff or Pheasant Branch Conservancy and Dane County Airport?

USE ANY METHOD TO ADD.

3.
$$\begin{array}{r} 2,483 \\ + 5,876 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 3,195 \\ + 1,452 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 2,485 \\ + 4,223 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 2,653 \\ + 5,096 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 6,584 \\ + 7,543 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 3,855 \\ + 8,195 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 7,657 \\ + 8,416 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 6,096 \\ + 6,923 \\ \hline \end{array}$$



Addition

ADD.

1. $35,329 + 2,489 =$

2. $58,394 + 72,905 =$

3. $4,576 + 52,862 =$

4. $561,705 + 74,739 =$

5. $608,135 + 237,645 =$

6. $238,077 + 529,592 =$

7. $385,287 + 162,323 =$

8. $529,847 + 86,305 =$

The table shows the surface area of 4 Madison Lakes (in square miles).

Use the data in the table to help answer the following questions.

Lake	Surface Area (square miles)
Monona	5.116
Mendota	15.21
Kegonsa	5.014
Waubesa	3.125

9. Which is greater, the surface area of Lake Mendota, or the sum of the surface areas of Lake Monona, Lake Waubesa, and Lake Kegonsa?

10. Which two lakes have a combined surface area of 20.326 square miles?



Subtraction

SUBTRACT.

$$\begin{array}{r} 1. \ 52,915 \\ - 25,716 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \ 730,656 \\ - 672,061 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \ 479,525 \\ - 83,732 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \ 651,205 \\ - 24,515 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \ 375,207 \\ - 102,580 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \ 516,903 \\ - 448,505 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \ 915,467 \\ - 99,076 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \ 185,370 \\ - 37,561 \\ \hline \end{array}$$

This table shows populations of five Wisconsin towns.

City	Population
Madison	258,054
Middleton	19,784
Waunakee	12,924
McFarland	8,840
Sun Prairie	33,974

9. What is the difference between the greatest population and the least population?

10. How many more people live in Sun Prairie than in Waunakee?



Addition & Subtraction

SOLVE EACH PROBLEM.

- 148 Herring Gulls, 500 bluegills, and 260 muskrats call Lake Monona their home. How many more bluegills does Lake Monona have than Herring Gulls and muskrats combined?

- On Friday, 532 people visited Lake Kegonsa. On Saturday, 378 more people visited Lake Kegonsa than on Friday. How many people in total visited Lake Kegonsa on Friday and Saturday?

ADD OR SUBTRACT.

3.
$$\begin{array}{r} 374 \\ + 768 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 7,541 \\ - 3,816 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 4,966 \\ + 9,576 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 35,738 \\ - 12,079 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 65,867 \\ + 57,273 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 58,144 \\ - 12,079 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 368,418 \\ + 272,079 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 509,515 \\ - 332,742 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 741,652 \\ + 205,273 \\ \hline \end{array}$$



Addition & Subtraction

ADD OR SUBTRACT.

1. $13,564 - 8,627 =$ _____

2. $7,504 + 67,359 =$ _____

3. $3,504 - 1,249 =$ _____

ANSWER EACH QUESTION ABOUT THE INFORMATION IN THE TABLE.

Area of the Waterways of Wisconsin

Waterway	Area (square miles)
Lake Superior	31,700
Lake Michigan	22,394
Lake Mendota	15.21
Lake Monona	5.116
Lake Kegonsa	5.014
Lake Waubesa	3.125

4. What is the total area of Lake Mendota and Lake Michigan?

5. Which two waterways have the greatest area? What is the sum of their areas?

6. Which is greater: the area of Lake Michigan or the total area of Lake Kegonsa and Lake Mendota?



Multiplication

DRAW A RECTANGLE. FIND THE TENS PRODUCT, THE ONES PRODUCT, AND THE TOTAL PRODUCT. THE FIRST ONE IS DONE FOR YOU.

1. 4×29

$$\begin{array}{r} 29 = 20 \quad + 9 \\ 4 \begin{array}{|l} 4 \times 20 = 80 \\ 4 \times 9 = 36 \end{array} \\ \hline 80 \\ + 36 \\ \hline 116 \end{array}$$

2. 7×43

$$\begin{array}{r} 43 = 40 \quad + 3 \\ 7 \begin{array}{|l} 7 \times 40 = \\ 7 \times 3 \end{array} \end{array}$$

3. 8×65

$$\begin{array}{r} 65 = 60 \quad + 5 \\ 8 \begin{array}{|l} 8 \times 60 = \\ 8 \times 5 \end{array} \end{array}$$

4. 3×74

$$\begin{array}{r} 74 = 70 \quad + 4 \\ 3 \begin{array}{|l} 3 \times 70 = \\ 3 \times 4 \end{array} \end{array}$$

SOLVE EACH PROBLEM.

5. Timothy's backyard is 18 feet long and 4 feet wide. How many square feet is his backyard?

6. Mr. Smith bought 7 rain barrels. Each rain barrel holds 49 gallons of water. How many total gallons of water can he collect?

7. Write and solve a multiplication word problem about Lake Monona.



Multiplication & Division

USE ANY METHOD TO SOLVE.

SKETCH A RECTANGLE MODEL, IF YOU NEED TO.

1. $6 \times 28 =$

2. $4 \times 59 =$

3. $8 \times 74 =$

4. $36 \times 7 =$

5. $5 \times 66 =$

6. $3 \times 85 =$

7. $9 \times 52 =$

8. $49 \times 3 =$

9. $23 \times 8 =$

SOLVE EACH PROBLEM.

10. The fourth graders at Marshall Elementary School went to the Bolz Conservatory at Olbrich Botanical Gardens. Tickets cost \$6 each. If 72 students went on the field trip, what was the total cost of their tickets?

11. The science teacher gave 8 water cycle worksheets to each student in their class. If there were 32 students, how many different worksheets did the teacher give out?



Multiplication & Division

SKETCH RECTANGLES AND SOLVE BY ANY METHOD THAT RELATES TO YOUR SKETCH.

1. $4 \times 536 =$

2. $7 \times 372 =$

3. $6 \times 852 =$

4. $5 \times 729 =$

5. Marshall Boats, boat rental company charges \$9 per kayak. The company has 418 boats total. When all the boats are being used, how much money does the boat rental company make?

6. A round trip between Madison, Wisconsin to Chicago, Illinois is 294 miles. Sarah's family made the trip 6 times last year. What is the total number of miles traveled by Sarah's family?

7. There are 224 worms in each bucket for fishing. Ms. Bryans buys 5 buckets. How many worms did Ms. Bryans buy?

8. Write and solve a multiplication word problem involving a three-digit number.



Division

DIVIDE.

1. $2,125 / 5 =$

2. $826 / 6 =$

3. $576 / 9 =$

4. $6,944 / 4 =$

5. $978 / 2 =$

6. $2,496 / 8 =$

7. $275 / 7 =$

8. $865 / 5 =$

9. $7,699 / 3 =$

SOLVE.

10. The Memorial Union shop put 6 strawberries on each vanilla ice cream scoop. The shop has 237 strawberries. How many vanilla ice cream scoops can they make? How many strawberries will be left over?

11. Teams of 4 students participate in the big sailing competition. This year, 384 students participated. How many teams is this?



Division

SOLVE.

1. $24/4 =$

$25/4 =$

$26/4 =$

$27/4 =$

$28/4 =$

$29/4 =$

2. $24/6 =$

$25/6 =$

$26/6 =$

$27/6 =$

$28/6 =$

$29/6 =$

3. Describe how the repeating pattern in row 1 is different from the pattern in row 2. Explain why.

USE ANY METHOD TO SOLVE.

4. $7/1,903 =$

5. $3/5,227 =$

6. $4/1,532 =$

7. $6/1,869 =$

8. $5/1,997 =$

9. $8/9,877 =$

SOLVE.

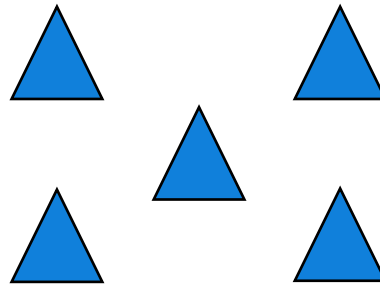
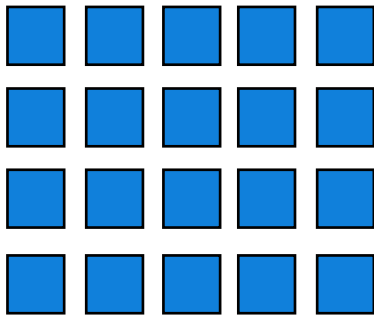
10. Mr. Ramone arranged his collection of 756 leaves into 9 equal piles. How many leaves were in each pile?

11. A fishing company has 9,168 fishing hooks to be divided equally among 6 stores. How many fishing hooks will each store get?



Story Problems

USE THE SHAPES TO ANSWER EXERCISES 1 - 4.



1. How many squares? _____ How many triangles? _____
2. Because $5 \times \underline{\hspace{1cm}} = 20$, there are times as many squares as triangles.

3. Write a multiplication equation that compares the number of squares s to the number of triangles t .

4. Write a division equation that compares the number of triangles t to the number of squares s .

SOLVE EACH COMPARISON PROBLEM.

5. Lake Monona has 5,600 fish. This is 7 times as many fish as Lake Wingra has. How many fish are in Lake Wingra?

6. The Women's Rowing team has 27 rowers. The Men's Rowing team has 9 rowers. How many times as many rowers are on the women's team than the men's team.



Story Problems

SOLVE EACH PROBLEM.

1. $6 \times 5 + 12 = m$

2. $4 \times (7 + 2) = t$

3. $8 - 1 \times 3 = w$

4. $(5 \times 5) + (7 \times 7) = k$

5. $(8 - 1) \times (2 + 4) = v$

6. $4 \times (15 - 6) = r$

7. At the union, a large ice cream cone costs \$5. Small ice cream cones cost \$3. Paula buys 5 large ice cream cones and 8 small ice cream cones for her friends. How much did she spend on ice cream cones?

8. George collects 18 leaves in his backyard. This is 3 times as many as James collects. Derek collected 9 more leaves than George and James combined. How many leaves did Derek collect?

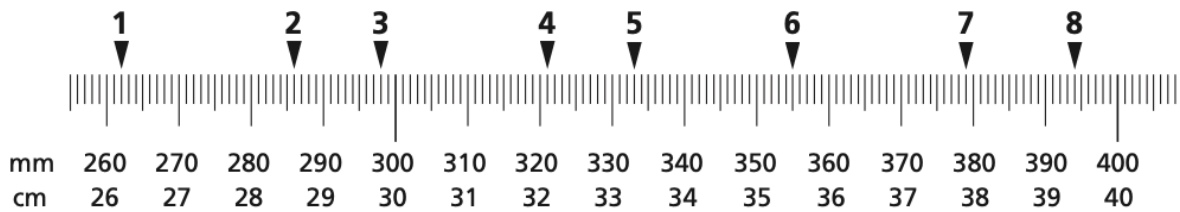
9. The Memorial Union sold 8 dozen (12 in 1 dozen) brats. They sold twice as many burgers. How many burgers did the union terrace sell?

10. Each soccer team has 15 players. Each player is either 9 or 10 years old. The green team has eleven 9-year-olds. The blue team has twice as many 10-year-olds as the green team. How many 9-year-olds are on the blue team?



Measurements

WRITE EACH MEASUREMENT IN MILLIMETERS (mm). ROUND THE MEASUREMENT TO THE NEAREST CENTIMETER (cm).



1. ____ mm rounds to ____ cm
2. ____ mm rounds to ____ cm
3. ____ mm rounds to ____ cm
4. ____ mm rounds to ____ cm
5. ____ mm rounds to ____ cm
6. ____ mm rounds to ____ cm
7. ____ mm rounds to ____ cm
8. ____ mm rounds to ____ cm

WRITE A NUMBER SENTENCE TO ANSWER EACH QUESTION.

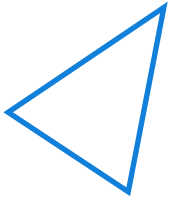
9. How many meters are equal to 5 kilometers?

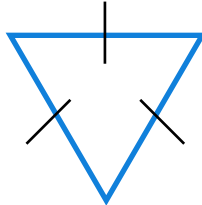
10. How many centimeters are equal to 8 meters?

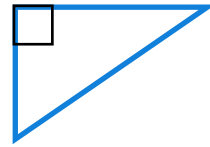


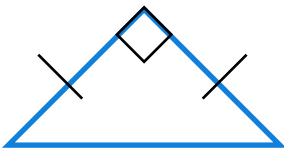
Geometry

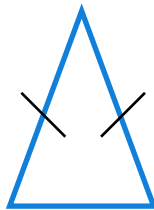
NAME EACH TRIANGLE BY ITS ANGLE AND THEN BY ITS SIDES.













10. Is it possible to draw a triangle that is both obtuse and equilateral? Explain.

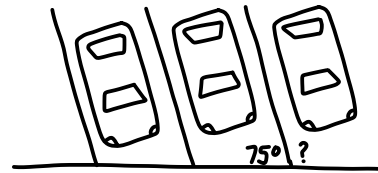
11. Is it possible to draw a triangle with no acute angles? Explain.



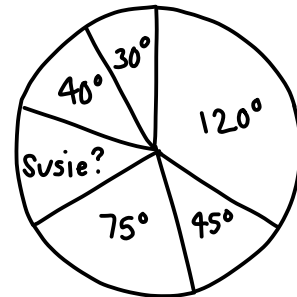
Problem Solving

USE AN EQUATION TO SOLVE.

The spaces in the Monona Terrace parking lot are slanted, as shown in this picture. What is the unknown angle measure?



Susie ordered Ian's Pizza. Members of her family cut and ate slices with different angle measures. What is the angle measure of Susie's slice?



The flagpole in front of Hamilton Middle School normally forms a right angle with the ground. However, after a week of heavy rain, the soft, wet ground caused the flagpole to lean to one side. Use the diagram to find the angle the flagpole now forms with the ground.

