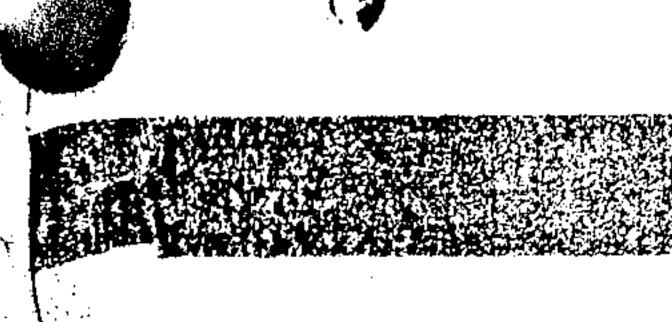
Activity Worksheet 29

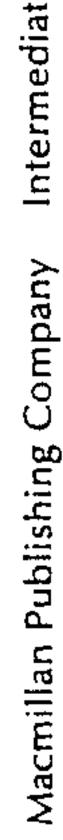
Name	
Name	

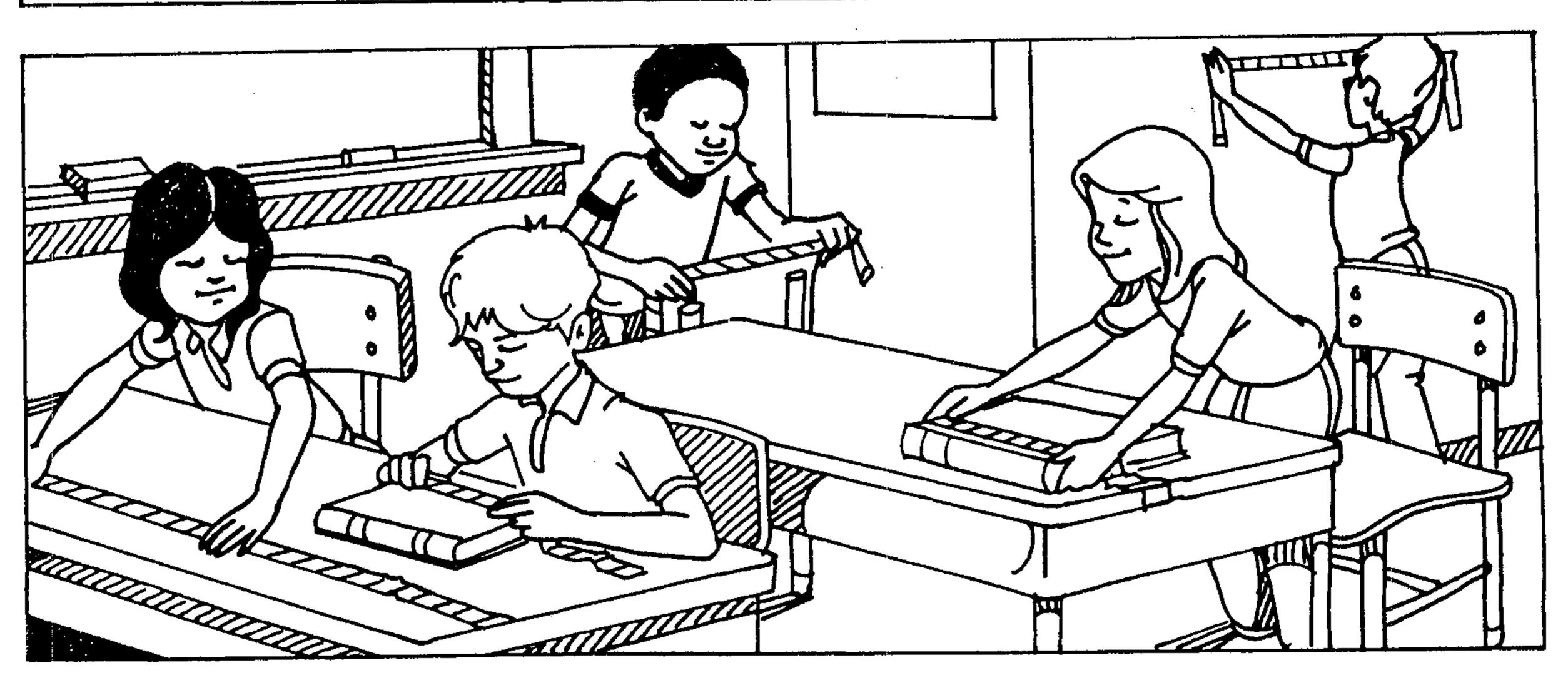


Finding Perimeter and Area

Use a metric measuring tape to measure the length and width of rectangular objects in the chart below. Write the measurements to the nearest centimeter. Then calculate the perimeter and area.

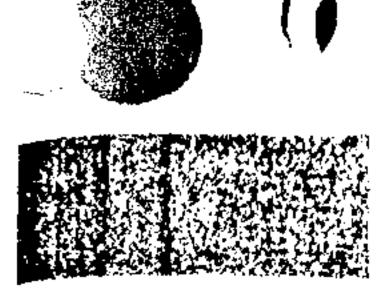
	What to Measure	length (centimeters)	width (centimeters)	area (square centimeters)
	Your math book			
1	Your English book			
	The dictionary			
	A table top			
	The chalk tray			
כמושוב ואוי	A chair seat			
	A picture on the wall			
unpariy	One window pane			





Name	
vaine	

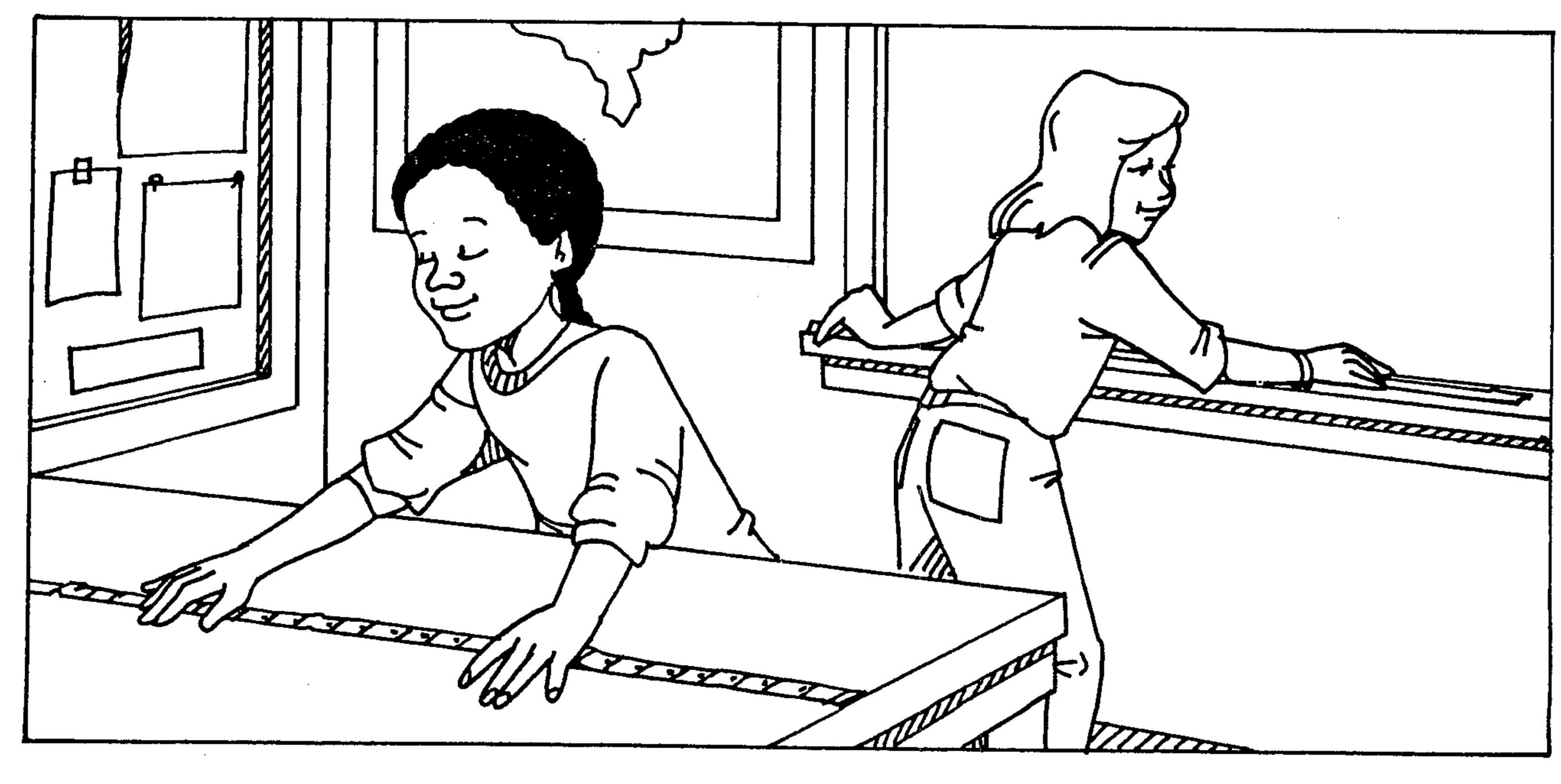
Activity Worksheet 27



Finding Perimeter and Area

Use a customary measuring tape to measure the length and width of rectangular objects in the chart. Write the measurements to the nearest inch. Then calculate the perimeter and area.

What to Measure	length (inches)	width (inches)	perimeter (inches)	area (square inches)
Your desk top	•			
The teacher's desk top				
The classroom door				
Classroom window				
Cafeteria table				
Your classroom				
The chalkboard				



Measuring Yourself

Use a customary measuring tape to measure different parts of your body. Write each measurement to the nearest inch, half-inch, quarter-inch and eighth-inch.

What to Measure	to nearest inch	to nearest $\frac{1}{2}$ inch	to nearest $\frac{1}{4}$ inch	to nearest $\frac{1}{8}$ inch
Around your head				
Around your waist				
Around your ankle				
Around your neck				
Around your fist				
From your nose to your knee				
From your knee to your big toe				
From your shoulder to your thumbnail				
From your waist to the floor (standing up)				
From your left ear to your right ear				
The farthest apart you can get your hands				

Area

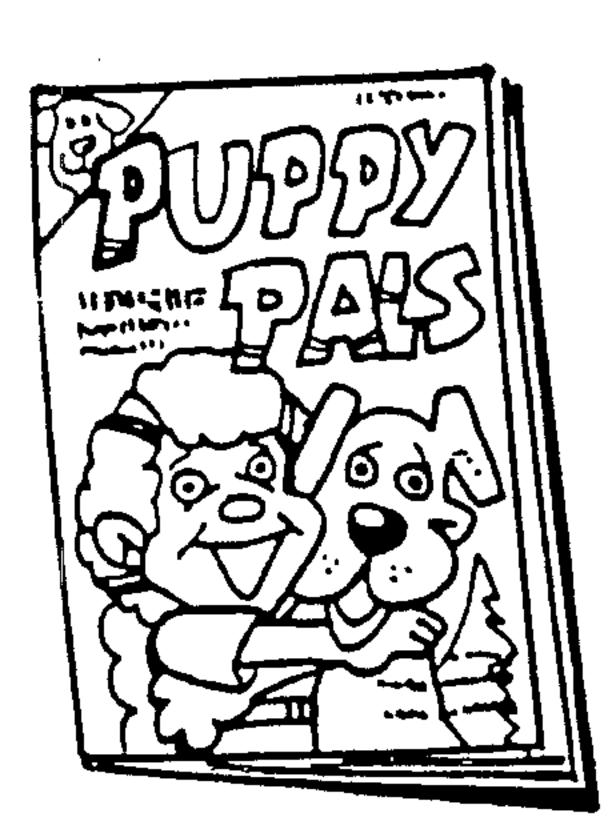
Ron's hobby is art. He makes figures using colored squares. He uses squares that are square I inch or I centimeter square inch on each side. centimeter The <u>area</u> of one of Ron's figures is the number of square inches or square centimeters used. 3 square inches 8 square centimeters Count to find the area of Now you draw a figure these figures: that is: square square square cm square cm square square cm

Area of a Rectangle



Kathy collects magazine covers. Her newest one is 14 inches tall and 12 inches wide. What is its area?

To find the area of a rectangle, multiply length times width.



14 ×12 28 14 168 square inches

Find the area of these rectangles and use your answers for the riddle.

28 in.

	19 in.
33 in.	

16 in.

____ sq. in. - I

____ sq. in. - E

____sq. in. - T

____ sq. in. - R

23 in.
27 in.

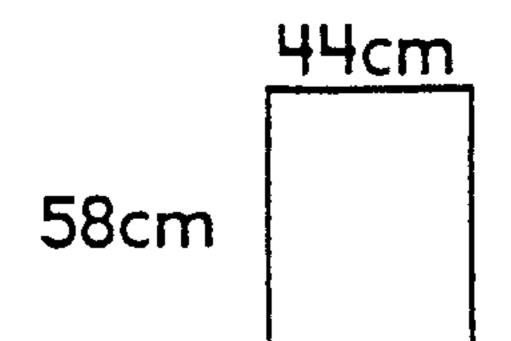
____ sq. in. - S

58 cm 27cm

____ sq. cm - D

	76cm
39cm	

____ sq. cm - G



____ sq. cm - W



What is a popular gardening magazine?

2552	448	448	1566	448	380	621

1566	627	2964	448	621	455

Area of a Right Triangle

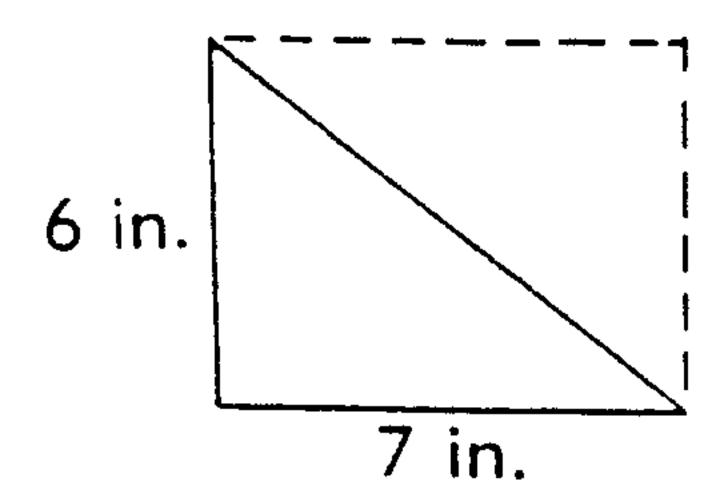
Steve saw that 2 of his pennants put together form a rectangle. The area of one of the pennants is $\frac{1}{2}$ the area of a rectangle with the same length and width.



To find the area of a right triangle, find the area of a rectangle with the same length and width and divide by 2.

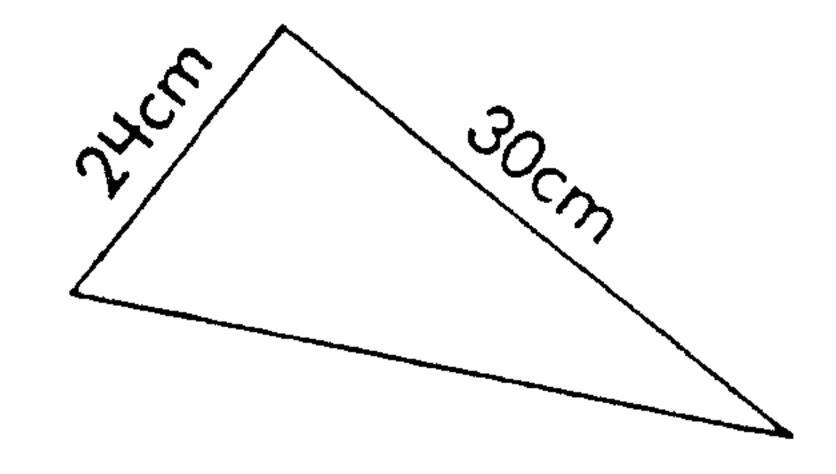
Find the area of these right triangles.

1.



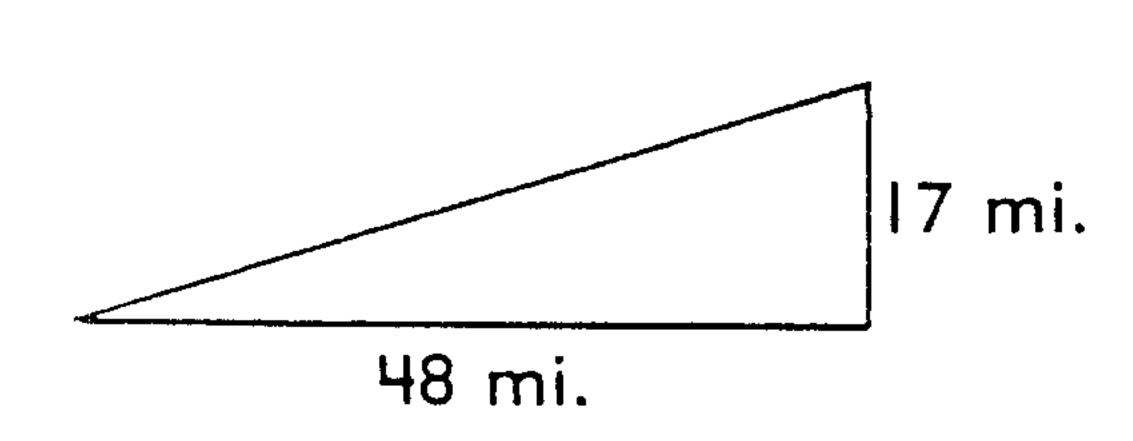
21 square inches

2.



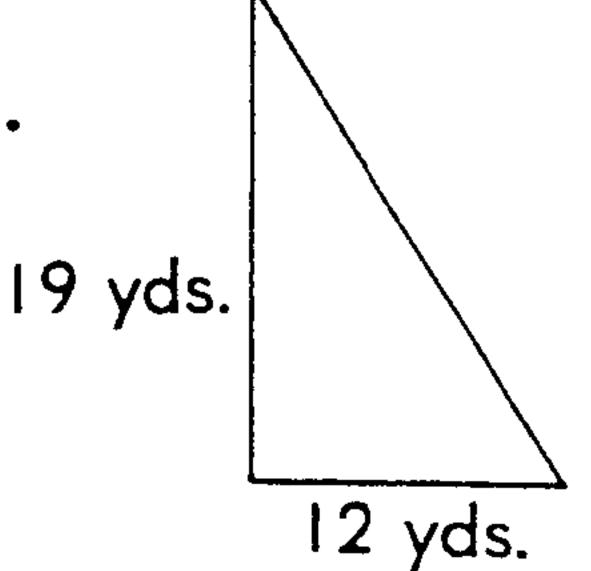
____square centimeters

3.



____square miles

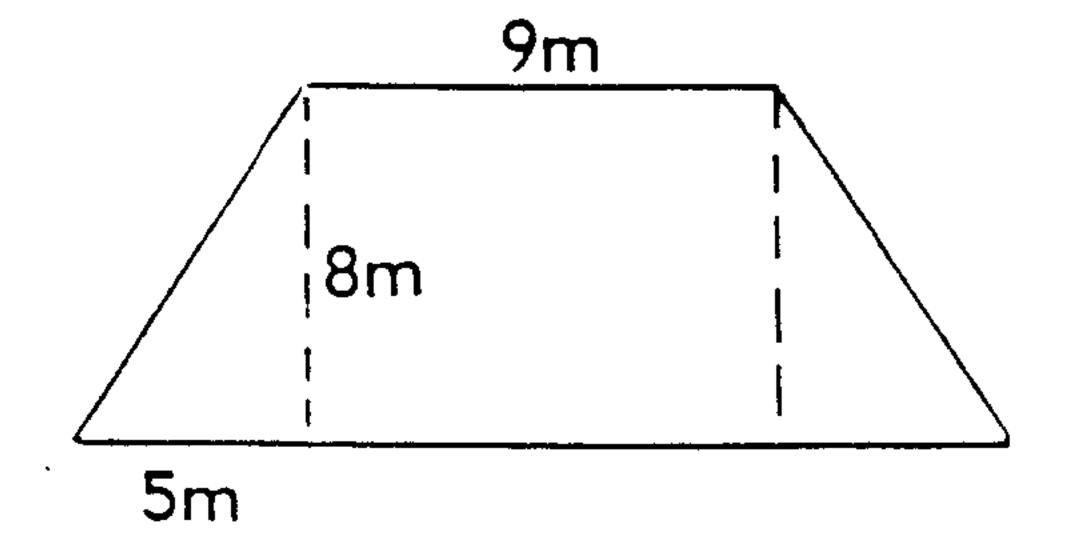
4.



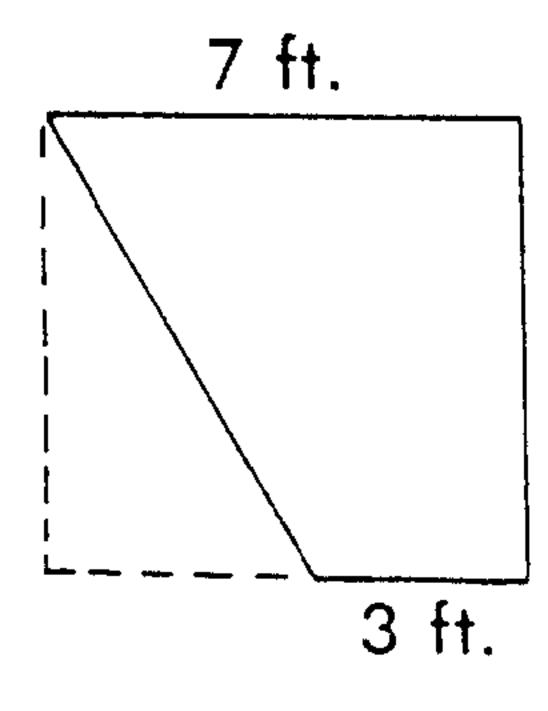
___square yards

Find the area of these shapes.

5



6.



____square meters

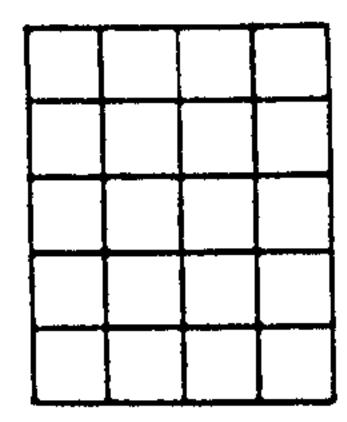
____square feet

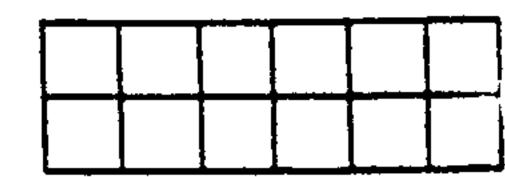
Chill finding the man of simble established

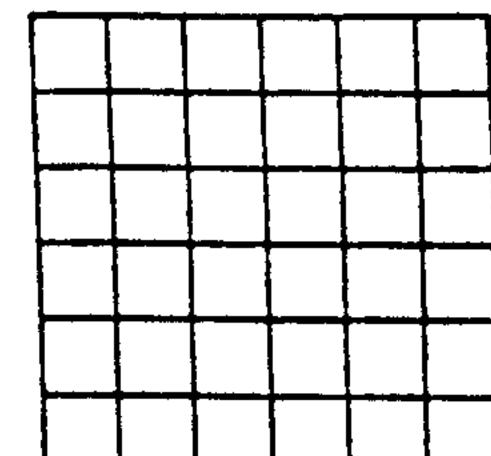
	NameDate	Score	
	Find the perimeter.		
Find the perimeter:	Find the perimeter:	Find the perimeter:	Find the perimeter:
71 ft 71 ft 87 ft	170 ft	238 ft 205 ft 238 ft	345 ft 438 ft
Find the perimeter:	Find the perimeter:	Find the perimeter:	Find the perimeter:
371 ft	284 ft 292 ft 284 ft	361 ft 465 ft	41 ft
Find the perimeter:	Find the perimeter:	Find the perimeter:	Find the perimeter:
438 ft	63 ft	418 ft	14 ft 16 ft
Find the perimeter:	Find the perimeter:	Find the perimeter:	Find the perimeter:
14 ft	153 ft 207 ft 190 ft 180 ft	371 ft	298 ft

Finding Area

Find the area by counting the unit squares.

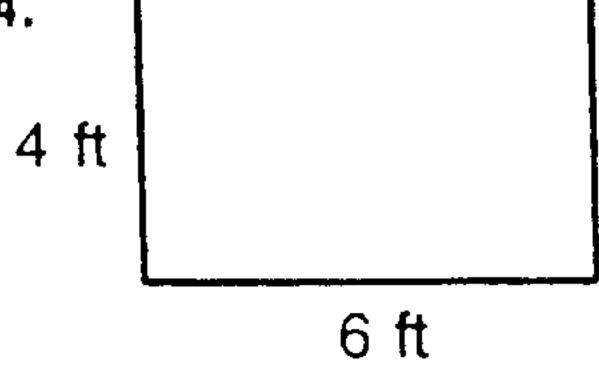




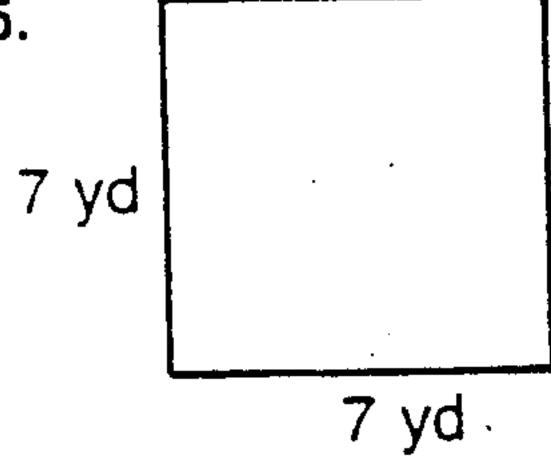


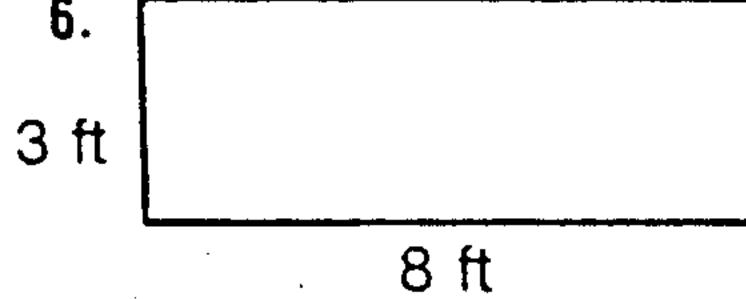
Find the area by multiplying.

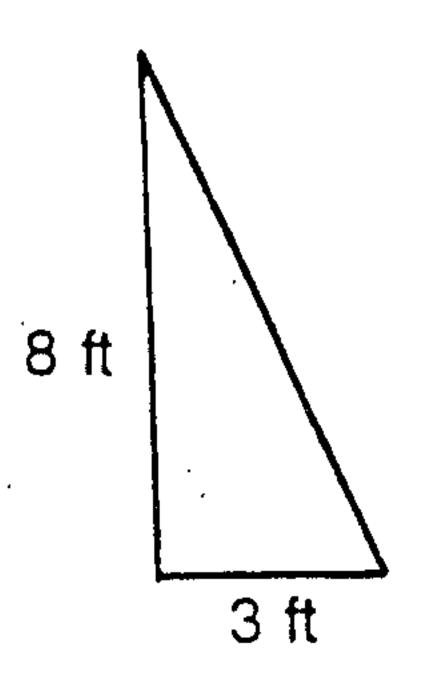
4.

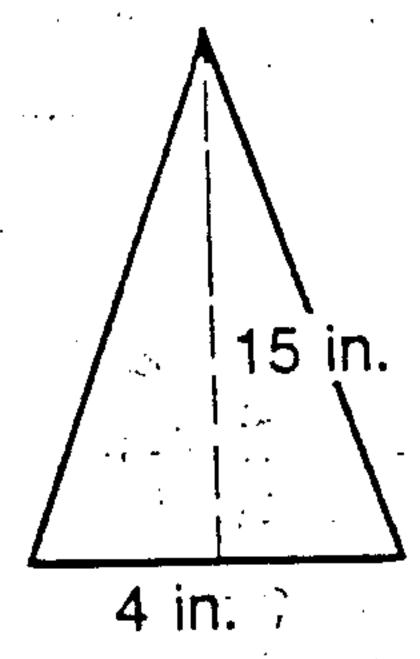


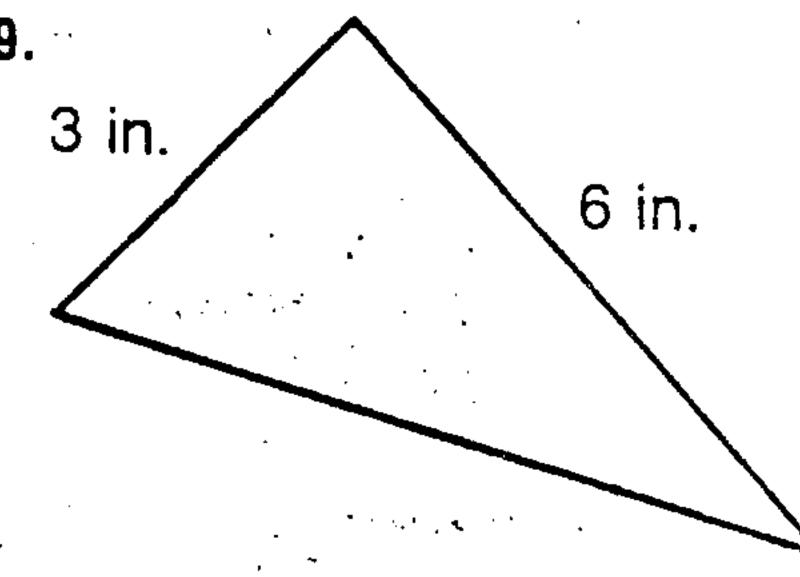
5.











Mixed Review

Write each answer in lowest terms.

1.
$$2\frac{1}{8} + 4\frac{3}{8}$$

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

3.
$$1\frac{1}{7} + 2\frac{1}{7}$$

4.
$$8\frac{3}{4} - 1\frac{1}{4}$$

5.
$$3\frac{6}{7} - 2\frac{1}{7}$$

6.
$$4\frac{7}{8} - 2\frac{5}{8}$$

7.
$$\frac{1}{2} \times 3$$

8. 4
$$\times \frac{3}{4}$$

9.
$$\frac{3}{9} \times 4$$

10.
$$\frac{1}{16} \div \frac{1}{8}$$

11.
$$\frac{2}{3} \div \frac{3}{4}$$

12.
$$\frac{1}{5} \div \frac{1}{10}$$

More Weird Words

Volume of cubes and

2 cm

rectangular prisms .ame What is the morbid fear of slime? To answer the riddle, find the volumes below at the bottom of the page. Put the corresponding letter above each. 3 cm 3 cm 5 cm N 3 cm 3 cm 4 cm 2 cm 2 cm 2 cm Ο. 4 cm 8 cm Η. 3 cm 4 cm 8 cm 2 cm 4 cm 5 cm 2 cm 3 cm 1 cm 2 cm B. 3 cm cm 2 cm 5 cm 3 cm 4 cm В. 4 cm 2 cm 7 cm N. 7 cm 3 cm 3 cm

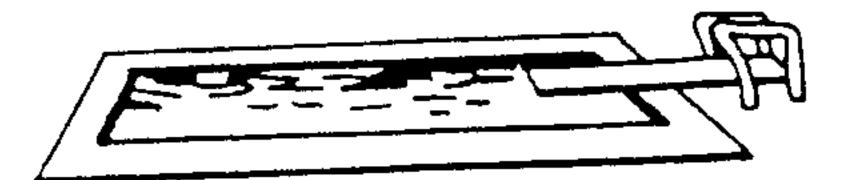
1 cm³ 40 cm³ 18 cm³ 16 cm³ 56 cm³ 64 cm³ 36 cm³ 80 cm³ 30 cm³ 42 cm³ 27 cm³ 48 cm³

1 3 .

Finding Volume

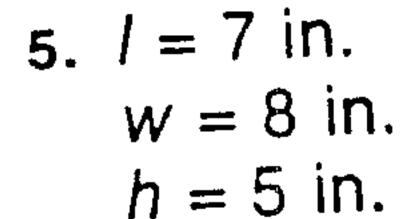
Find the volume of each.

1



75 ft x 25 ft x 8 ft

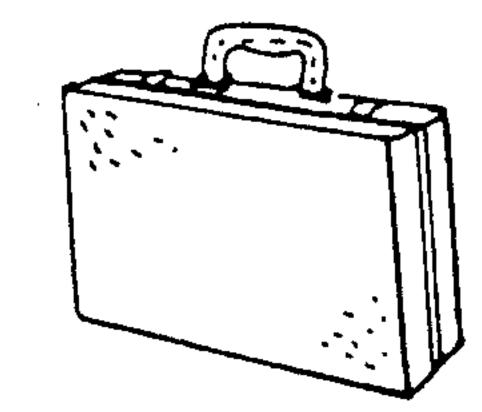
3. $30 \text{ cm} \times 28 \text{ cm} \times 50 \text{ cm}$



6.
$$l = 20 \text{ ft}$$

 $w = 10 \text{ ft}$
 $h = 5 \text{ ft}$

2



14 in. x 9 in. x 7 in.

4. 30 in. \times 6 in. \times 15 in.

7.
$$l = 50 \text{ yd}$$

 $w = 25 \text{ yd}$
 $h = 10 \text{ yd}$

8.
$$l = 5.6 \text{ mm}$$

 $w = 1.5 \text{ mm}$
 $h = 3.2 \text{ mm}$

Mixed Applications

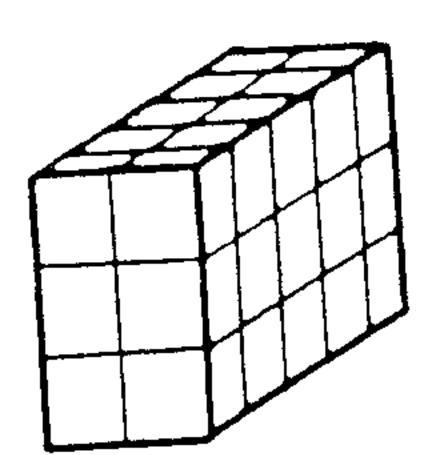
- 9. Joe's toolbox is 20 in. long, 12 in. wide, and 10 in. high. Find the volume of the toolbox.
- 11. The high school track is 400 meters long. In her training, Alice normally runs 4 laps. Today Alice ran $\frac{3}{4}$ of her usual distance. How many meters did she run?
- 10. The volume of a door is 6,912 in. If the door is 96 in. high and 2 in. thick, how wide is it?
- 12. The pool at a swim club is 75 ft long. The Choys' swimming pool is $\frac{2}{3}$ that size. How long is their pool?

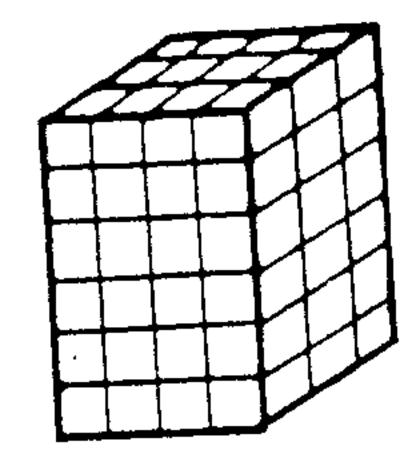
PHYSICAL EDUCATION CONNECTION

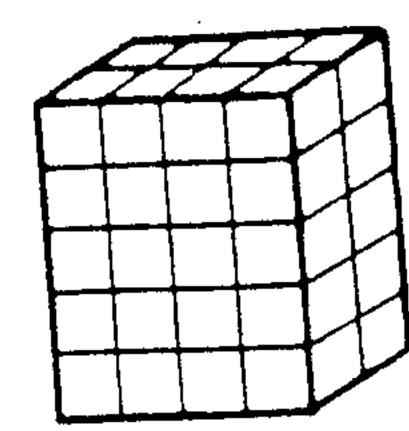
13. A rescue float often used at swimming pools is $3\frac{1}{2}$ in. \times $5\frac{1}{2}$ in. \times 40 in. and made of a soft molded foam. Determine the volume of this life-saving device.

Finding Volume

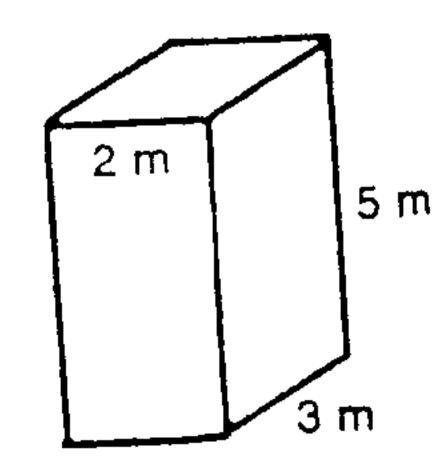
Count the cubic units to find the volume.

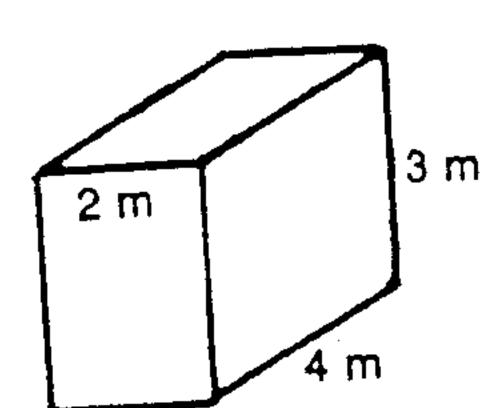




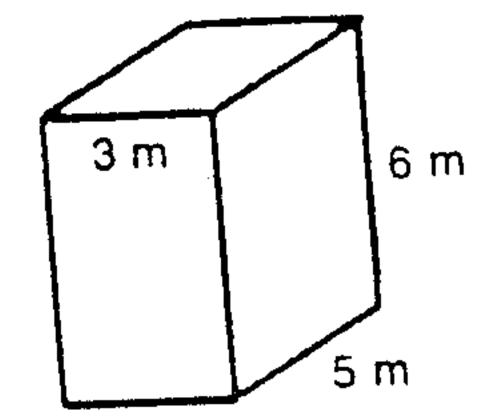


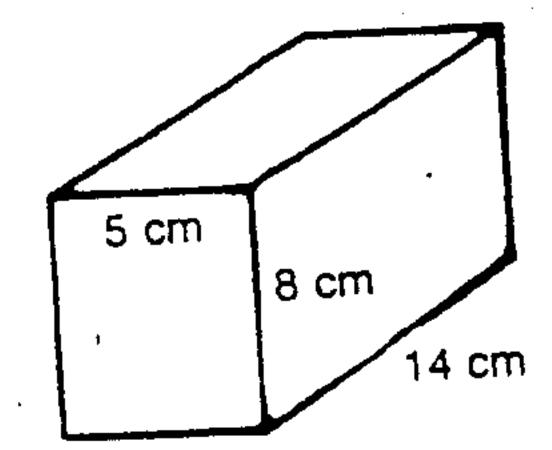
Find each volume.

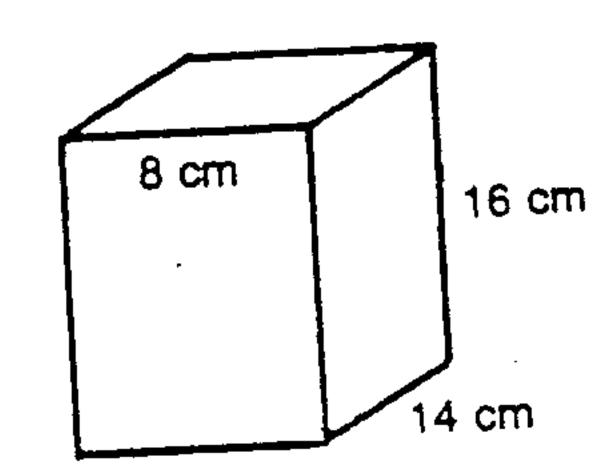


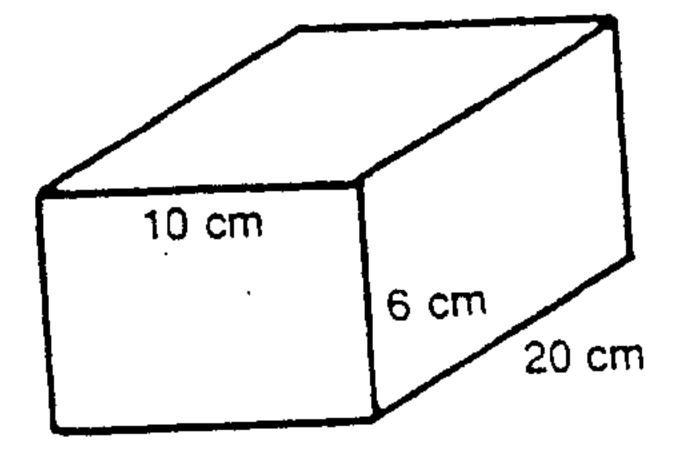


6.









Mixed Review

Write each answer in lowest terms.

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

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

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

4.
$$\frac{7}{8} - \frac{1}{4}$$

5.
$$\frac{9}{10} - \frac{2}{5}$$

6.
$$\frac{7}{8} - \frac{1}{3}$$

7.
$$\frac{1}{2} \times 2\frac{1}{2}$$

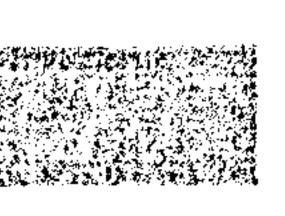
7.
$$\frac{1}{2} \times 2\frac{1}{2}$$
 8. $2\frac{1}{3} \times 1\frac{2}{3}$ ____

g.
$$1\frac{1}{2} \times 3\frac{1}{8}$$

10.
$$\frac{1}{7} \div \frac{1}{14}$$

11.
$$\frac{1}{8} \div 3$$

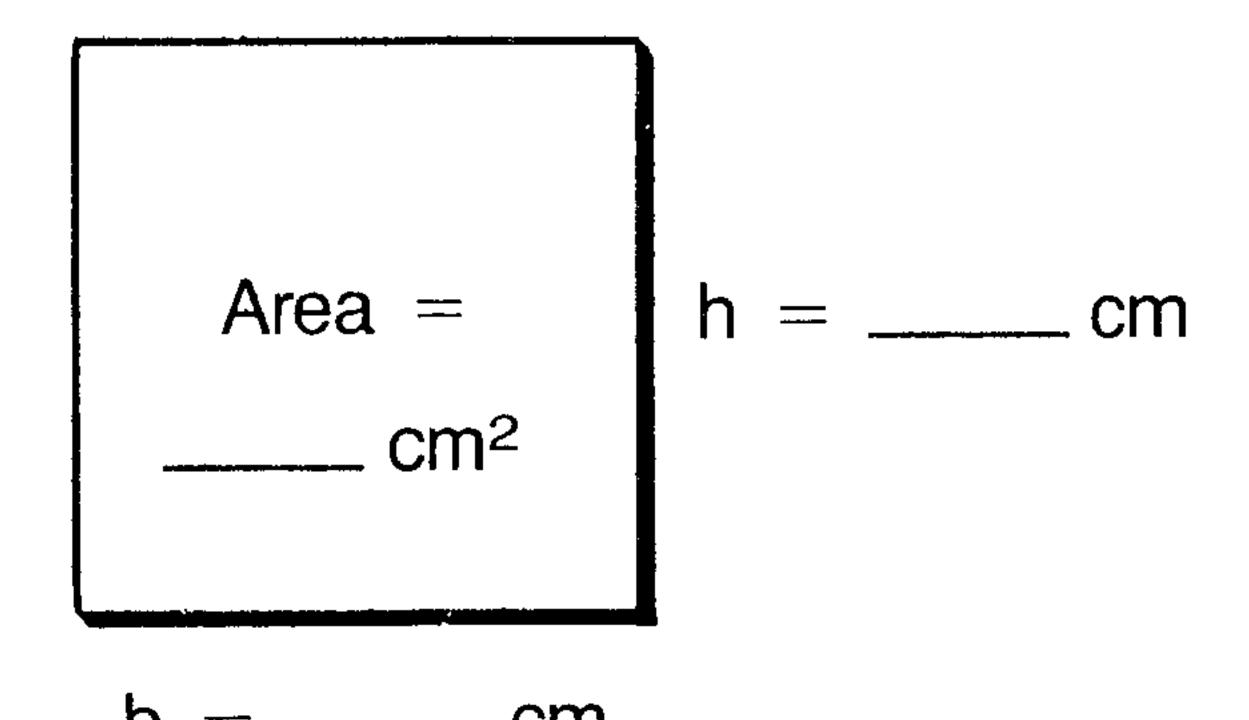
12.
$$\frac{2}{3} \div \frac{1}{3}$$

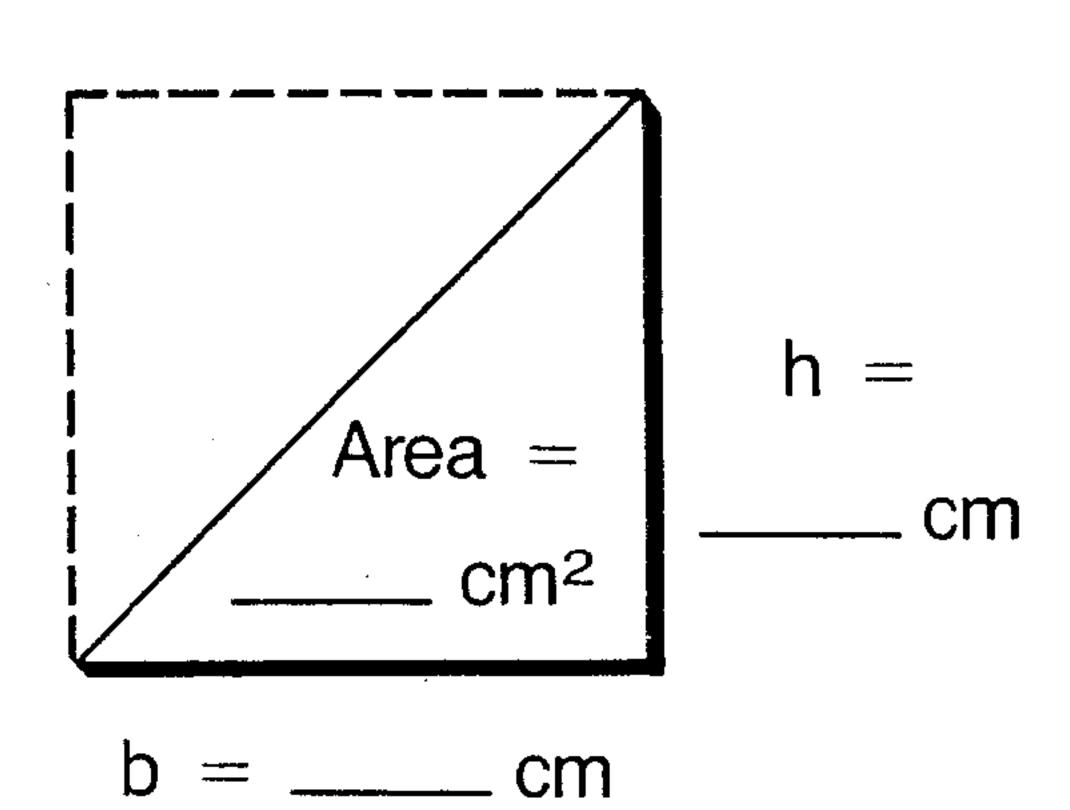


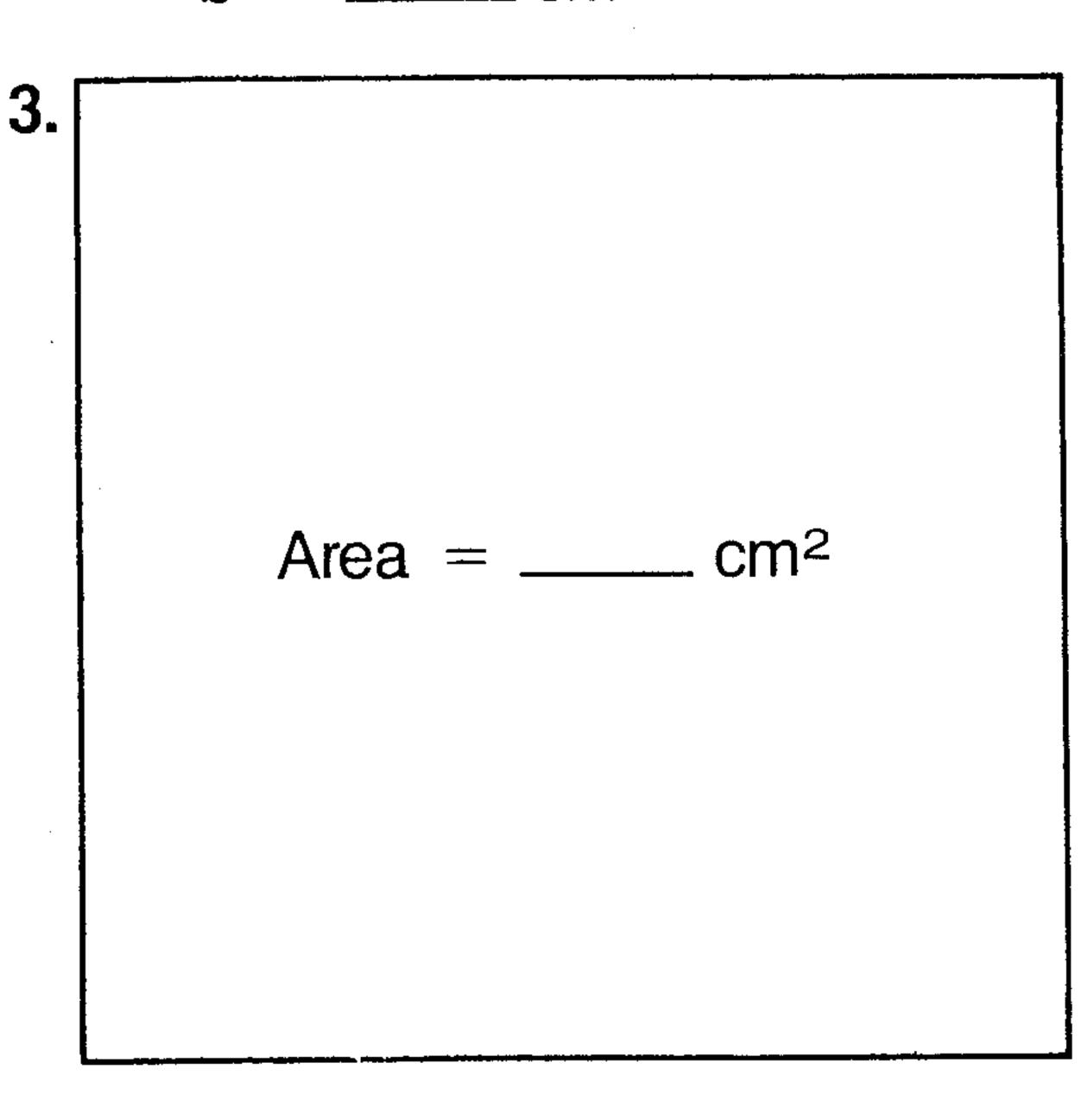
Tangram Areas

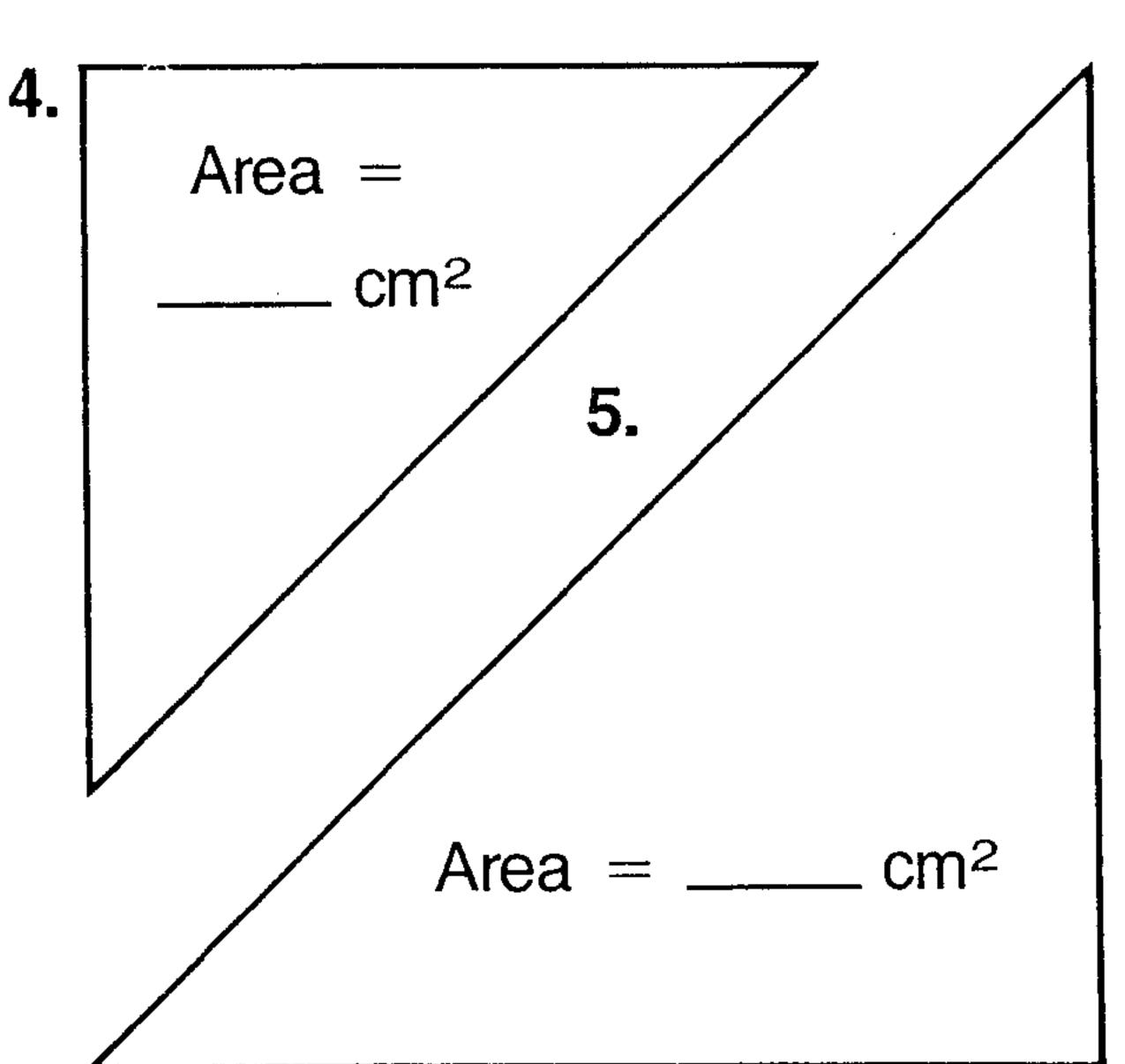
Find the areas of these figures. Measure the base and height to the nearest centimeter.

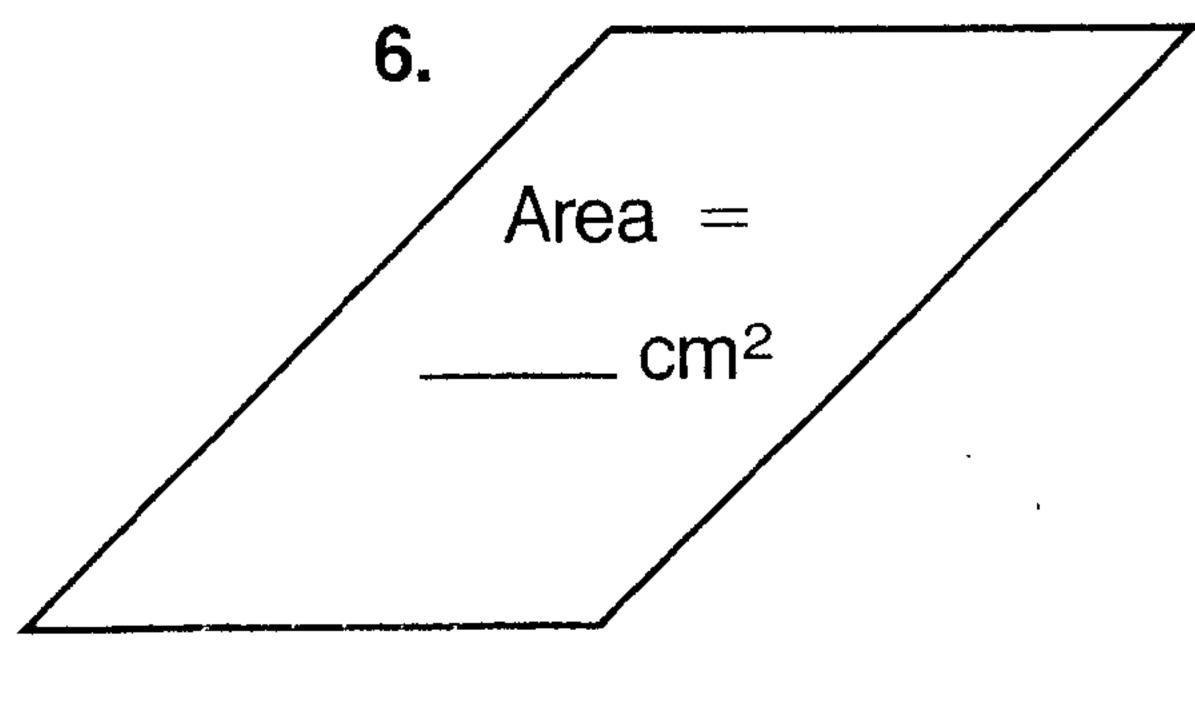
- 1. The area of a rectangle = its base (b) \times its height (h).
- 2. The area of a right triangle $=\frac{1}{2}$ its base (b) \times its height (h).





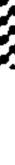






Area = cm ²	

SHARPEN YOUR SKILLS

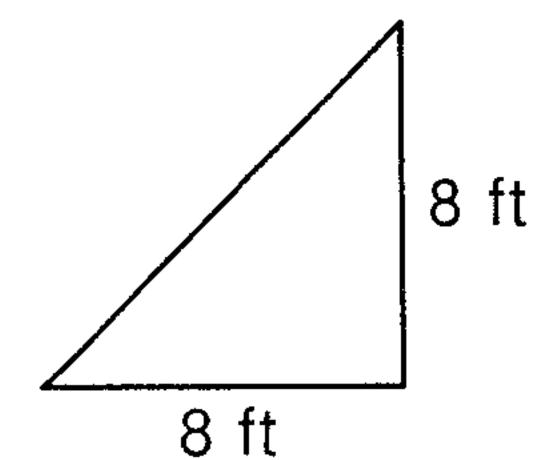


Area of Triangles

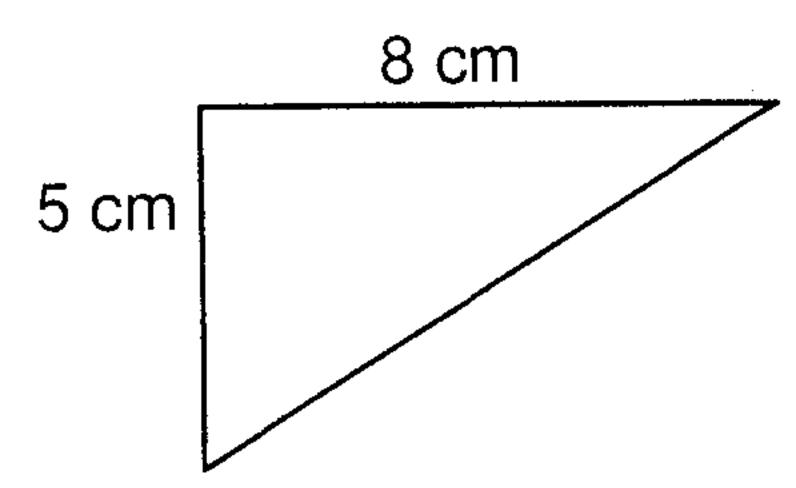
Find the area of each triangle.

Remember to label each unit of measure.

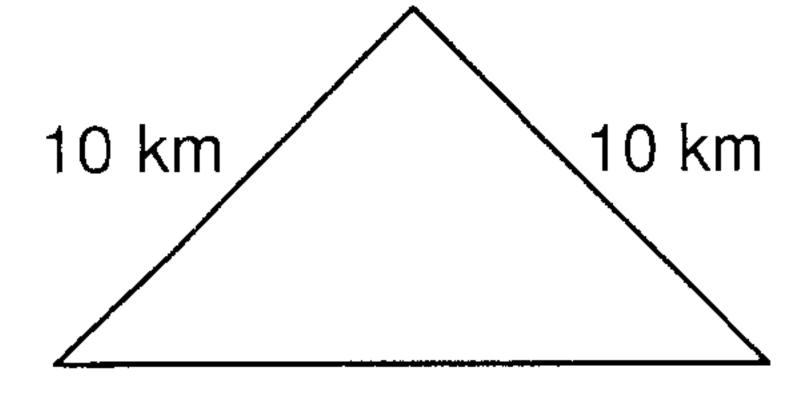
1.



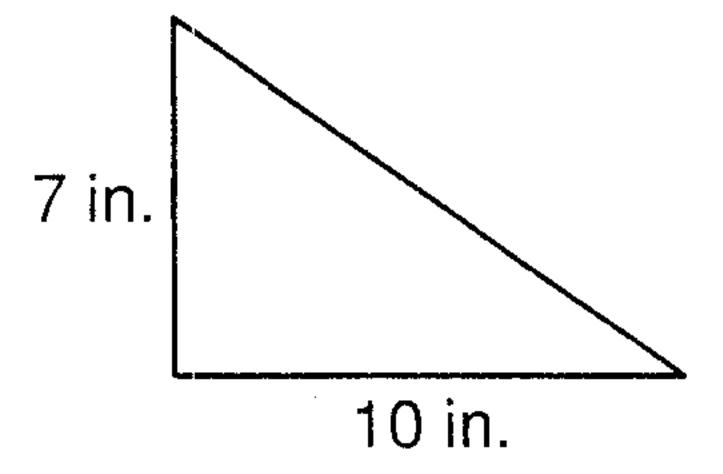
2



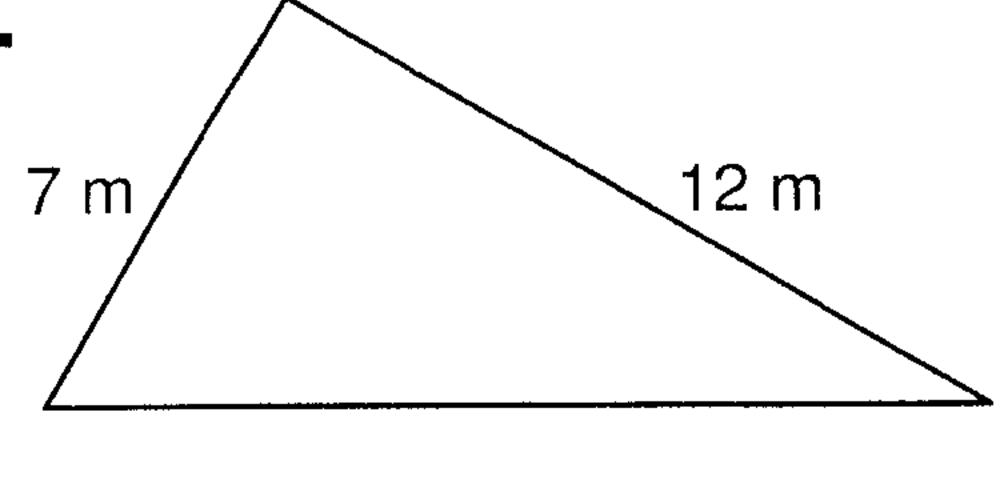
3.



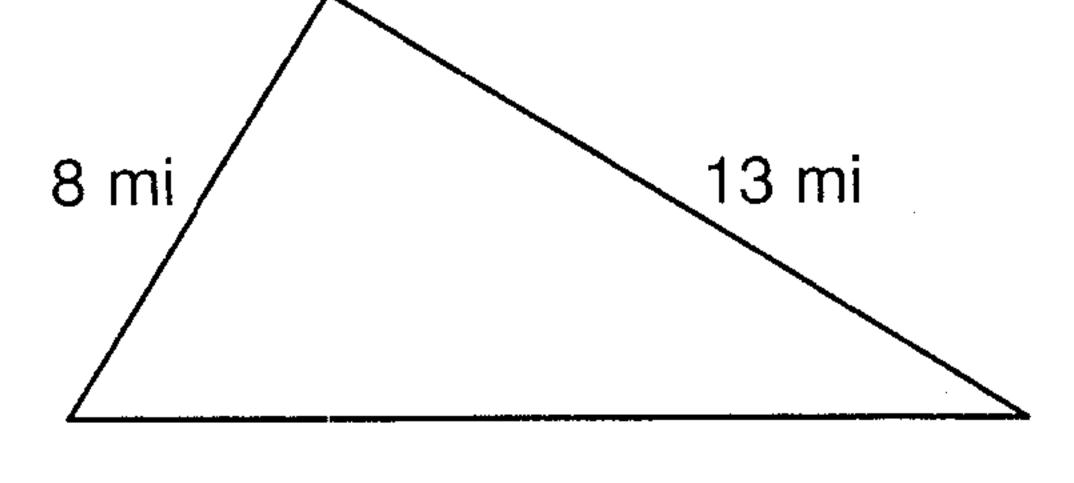
4



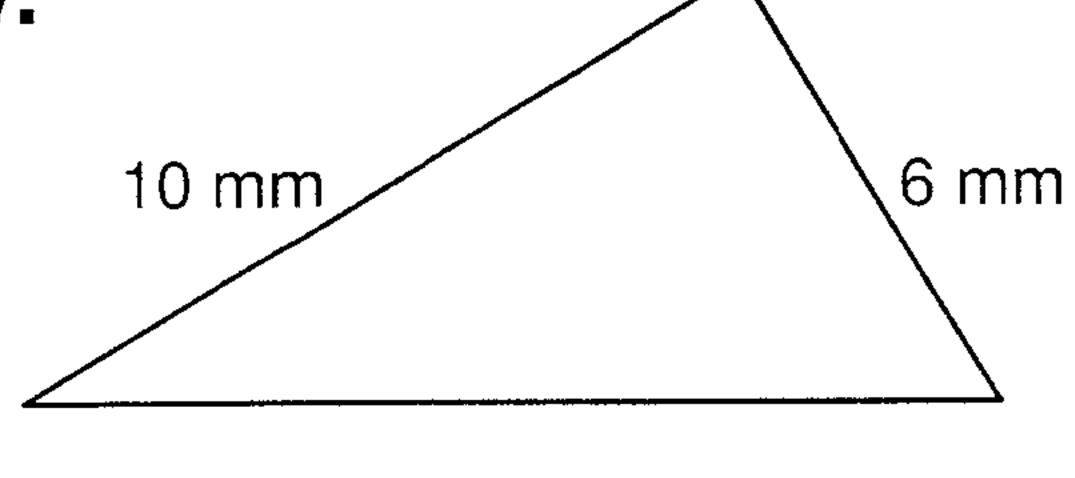
5.



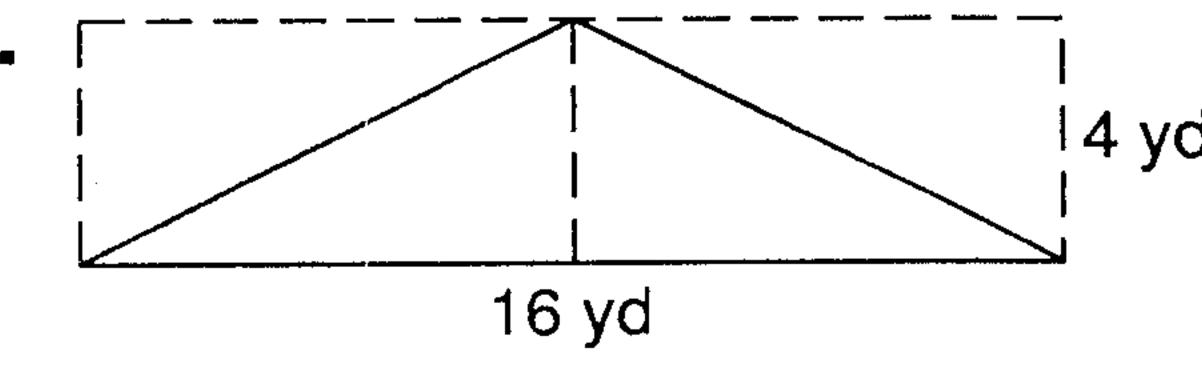
6.

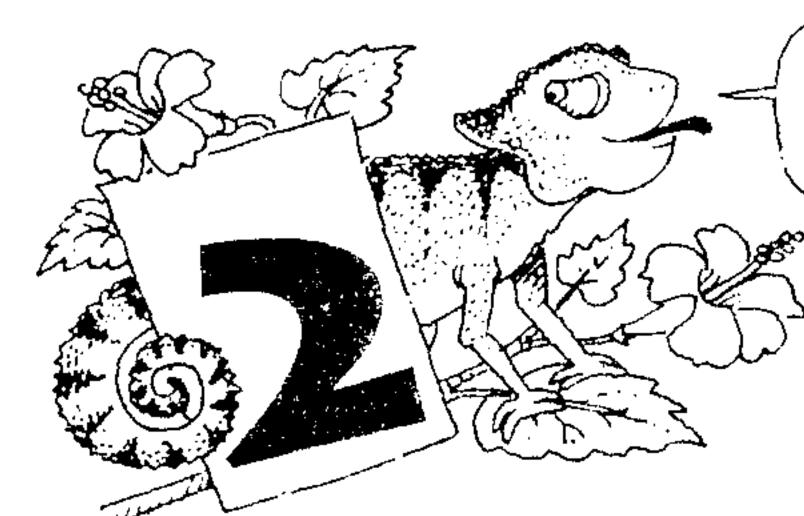


7.



8.





AREAS OF EMPHASIS: Area, Estimating, Measurement, and Counting

Turtles and Tiles

TEACHER MATERIALS

GEOMETRY

- Color Tiles
- Tile Sheet 17 Transparency
- Transparency 4

STUDENT MATERIALS

- Color Tiles (divided equally among groups)
- Tile Sheet 17
- Colored pencils or crayons
- Journal Page

Concrete Activities

- Use the top half of Transparency 4. Ask: "How can I find out how many squares fit inside the turtle's shell?" Ask a volunteer to fit Color Tiles onto the turtle's shell on the overhead, and report how many were used.
- Ask: "Are turtle shells really shaped like rectangles? (No) Here is a drawing of what a real shell might look like." Show bottom half of Transparency 4. Ask: "How many tiles would it take to completely cover the turtle shell?" Ask for estimates. Have a volunteer cover the turtle shell completely with Color Tiles, and estimate the area of the second turtle shell. Ask children to think and talk about areas of other irregular shapes.

Pictorial Activities

- Divide children into groups. Ask groups to trace one member's foot on a piece of paper. Ask: "How many tiles will it take to cover the foot?" Enter children's estimates into the column labeled *Estimate* (no tiles).
- Groups trace one of their member's hands and estimate the number of tiles they think it will take to cover the hand. Enter the estimates on the table. Do the same with 3 unusually shaped objects, such as an odd paper weight or precut irregular shapes.
- Groups now use Color Tiles to find new estimates for each of the objects. Have groups enter their estimates in the last column.

Symbolic Activities

• Write down the estimates for each foot on the overhead. Record guesses about the area of all feet in the classroom. Ask: "How can we find the area of all the feet? (Answer: by adding)" Encourage the use of calculators for this problem.

Groups can display their drawings and tables. Compare information. Who has the hand with the most area? Who has the foot with the least area? Who has the drawing of the funniest shape? Have a contest to see if all the shapes can be identified.

USE WHAT YOU = KNOW

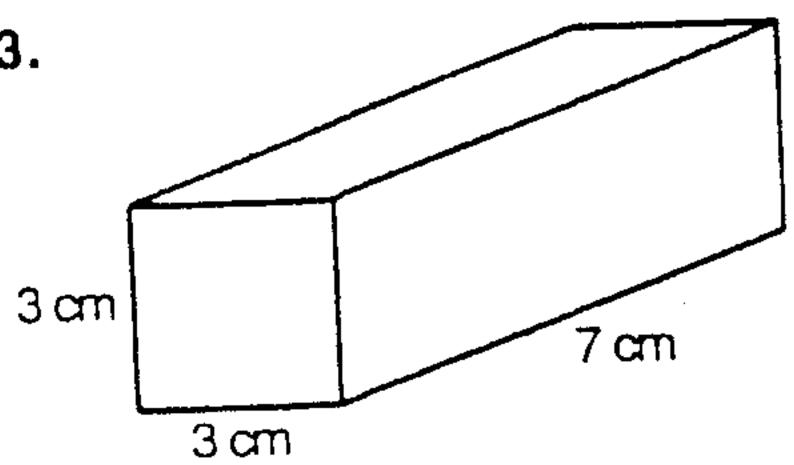
Exploring Volume

Use cubes to find out how many different rectangular prisms can be made with the given number of cubes.

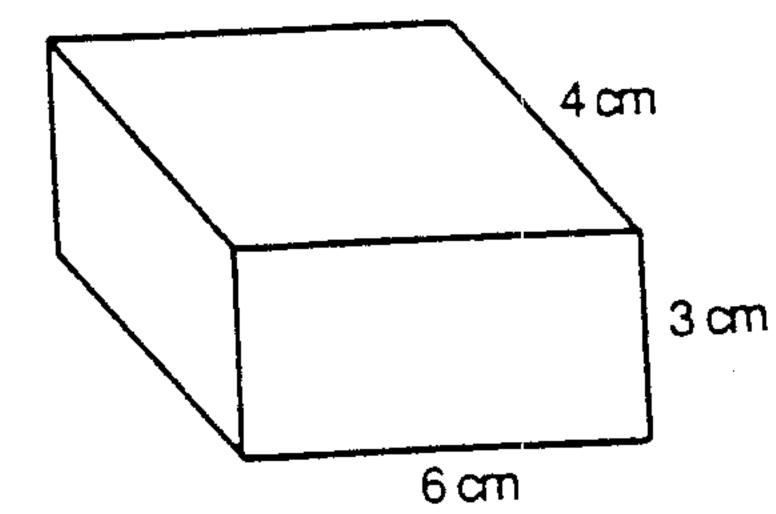
- 1. 6 cubes
- 2. 20 cubes

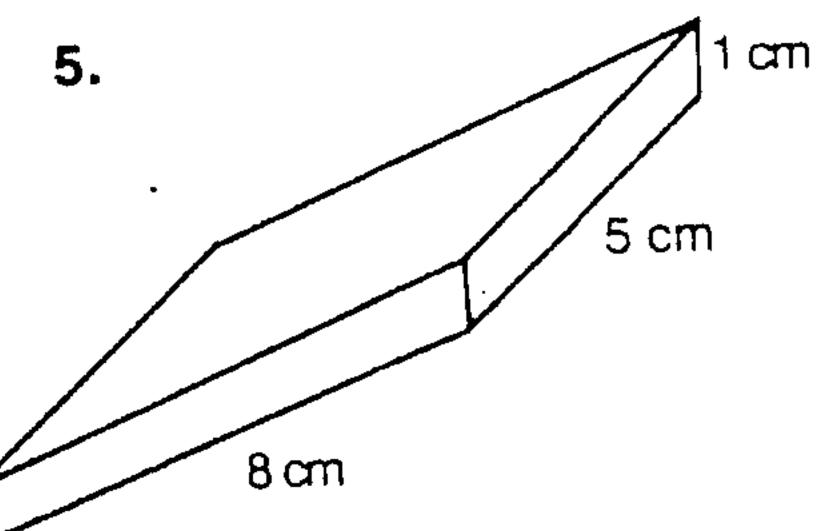
Predict which rectangular prism has the greatest volume. Then use connecting cubes to find the volume of each prism in cm³.

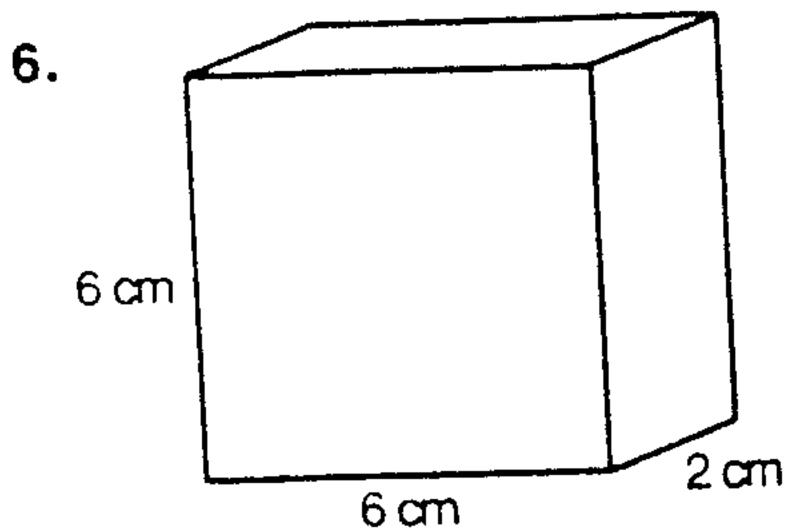
3.



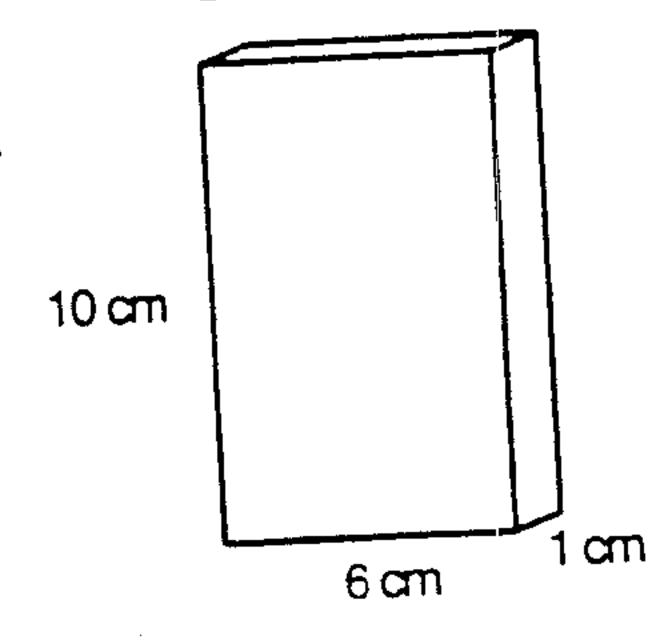
4.



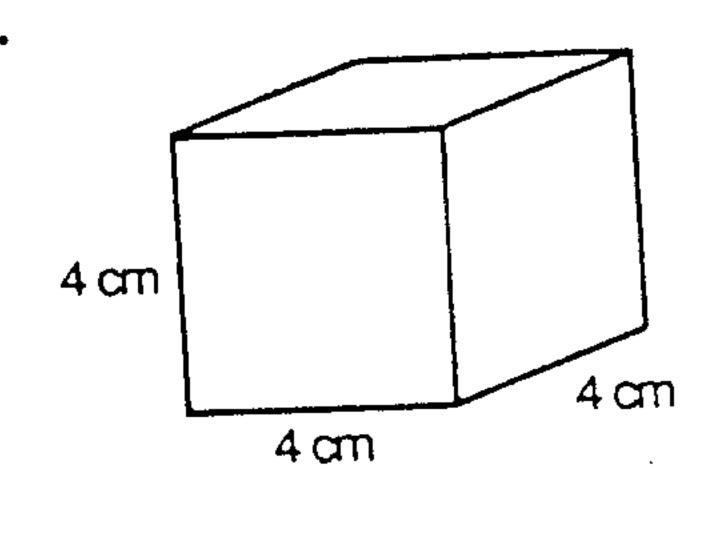




7.



8.

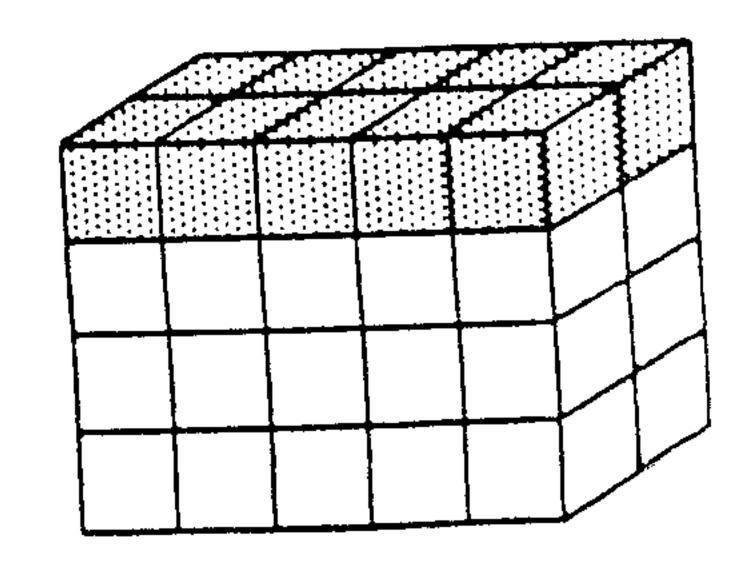


Mixed Applications

- 9. A swimming pool is 70 ft long and 20 ft wide. How much water would be needed to fill the pool to a depth of 8 ft?
- 10. Felipe wants to put a fence around a 40-foot by 45-foot garden. How much fence should he buy?

VISUAL THINKING

11. The diagram shows only the lower part of a rectangular prism. The shaded layer is the middle layer of the entire rectangular prism. How many cubes make up the entire rectangular prism?

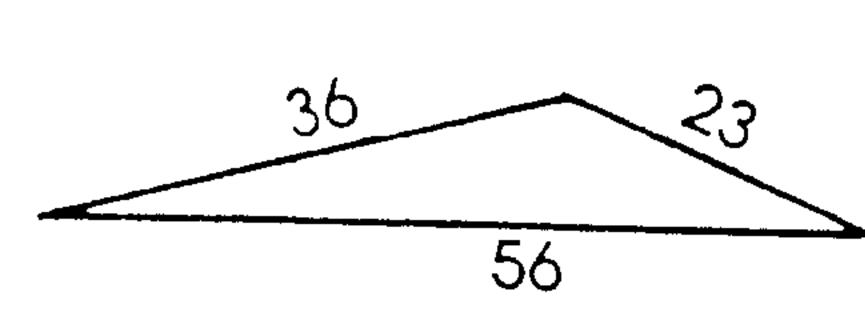


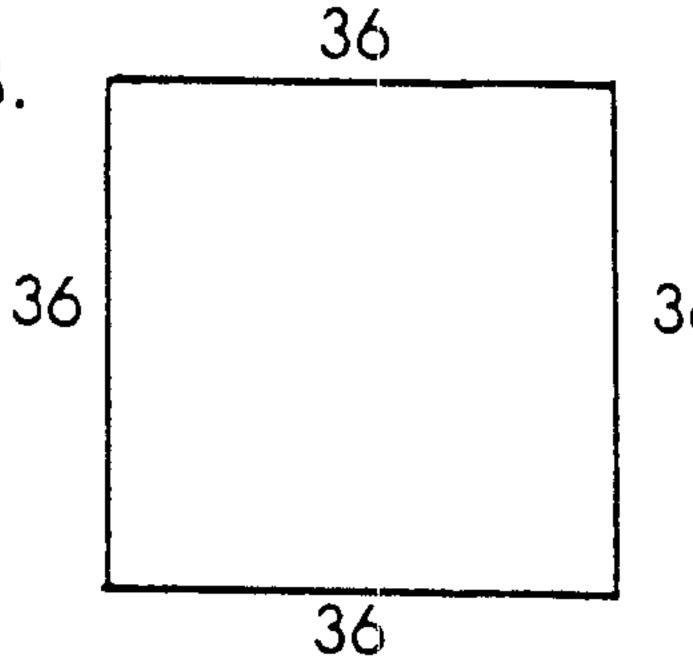
AREA AND PERIMETER

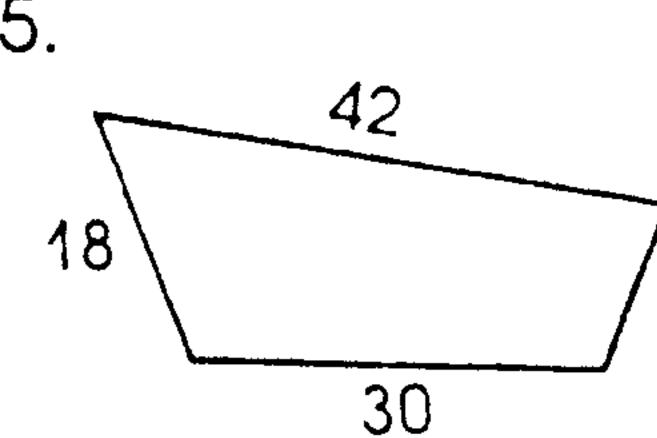
Name_

Use drawings to answer puzzles.

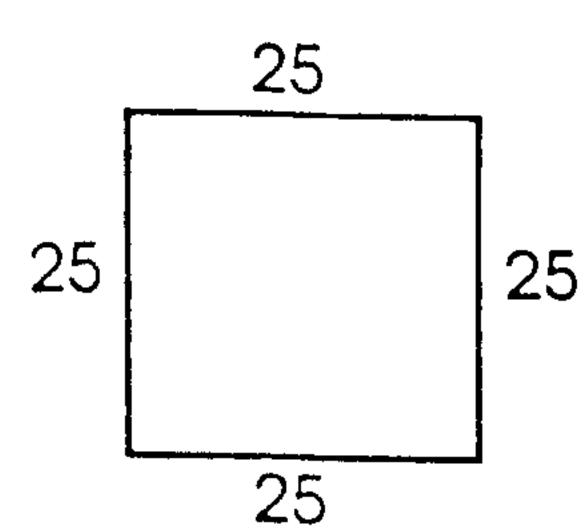
Across

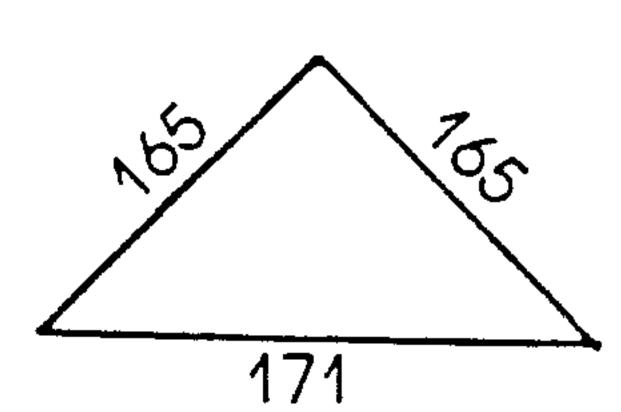


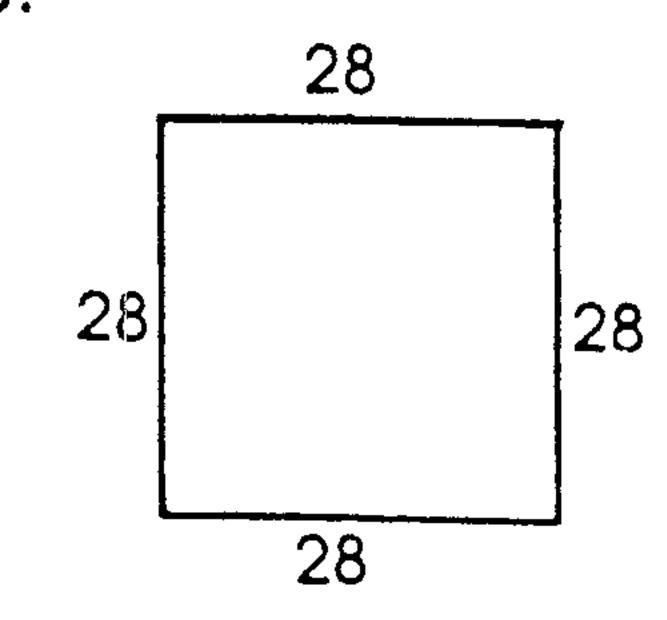


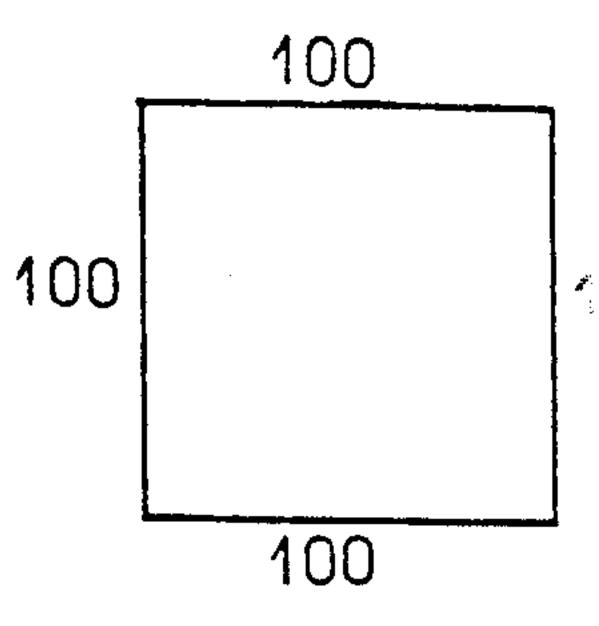


Down

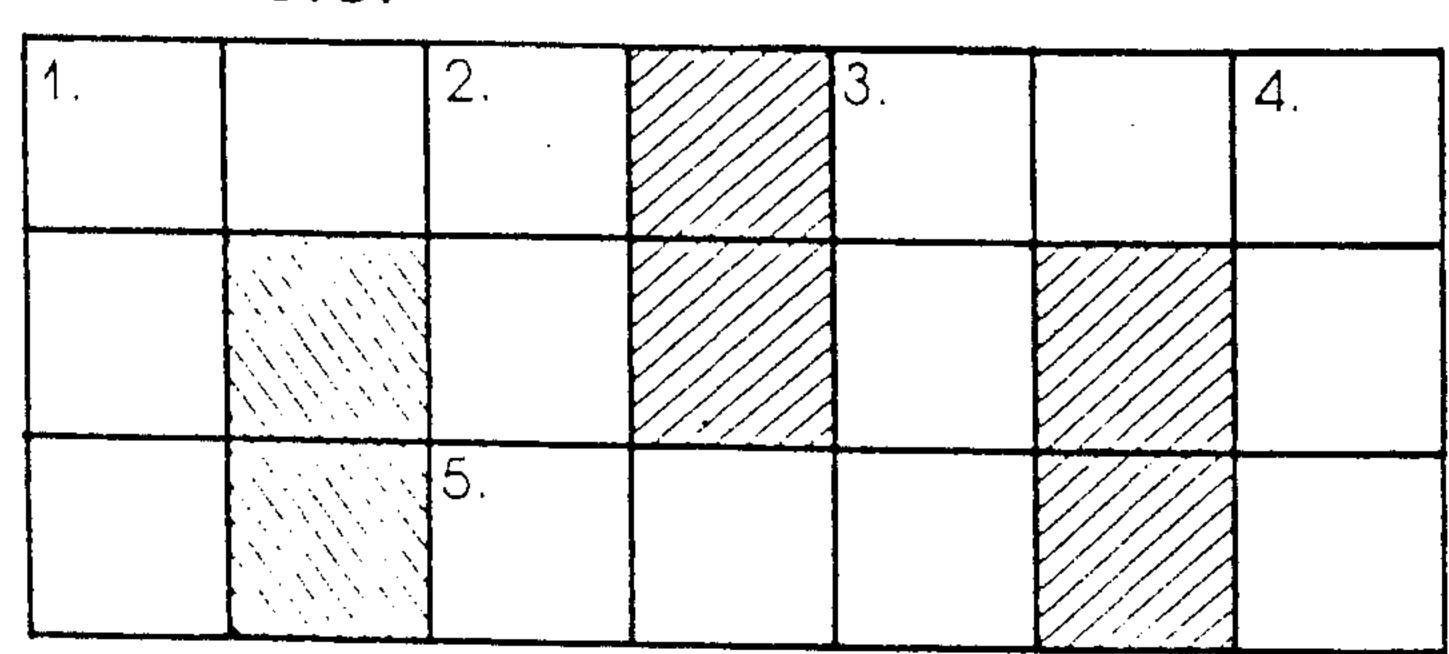


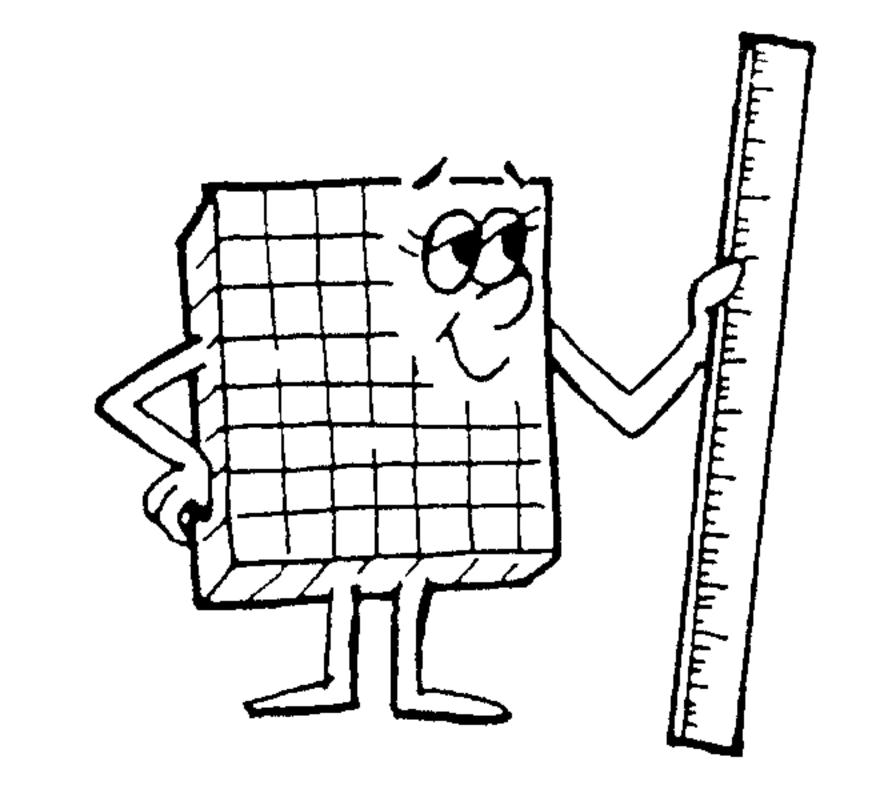




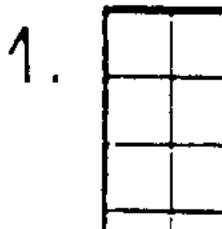


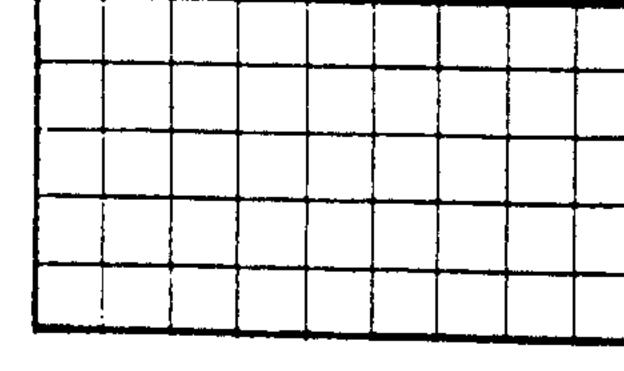
Perimeter

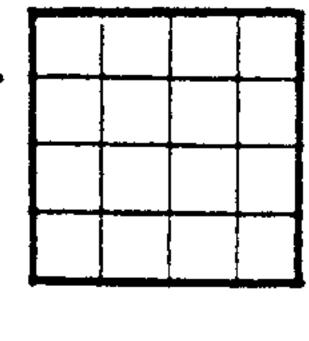


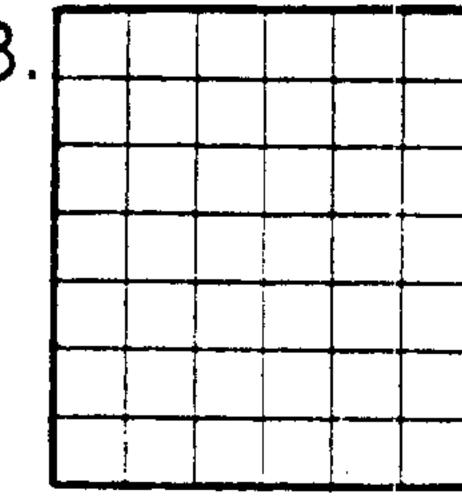


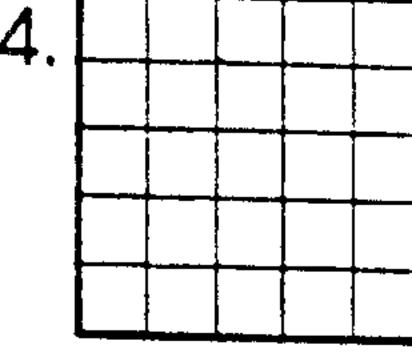
Across

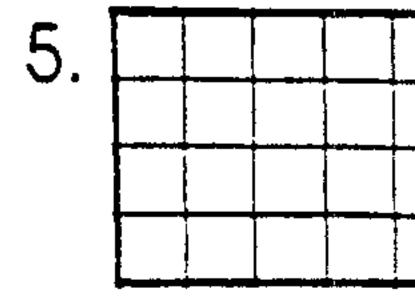




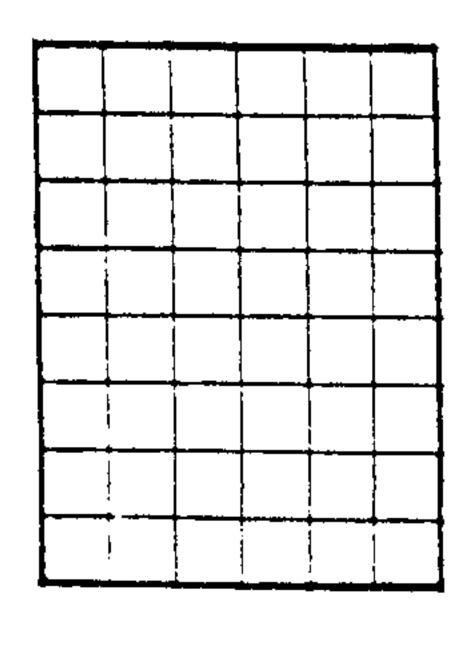


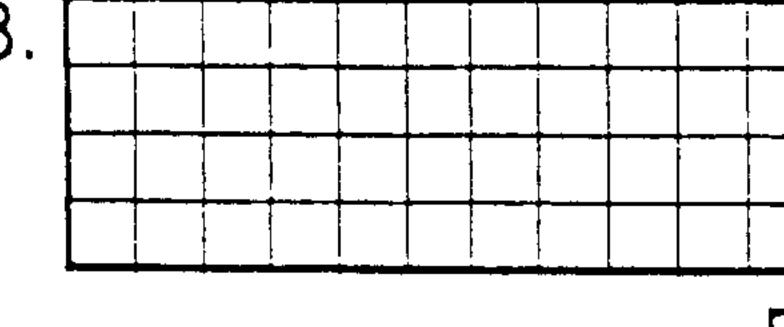


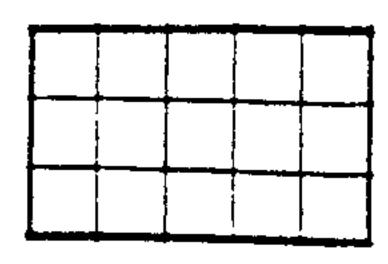




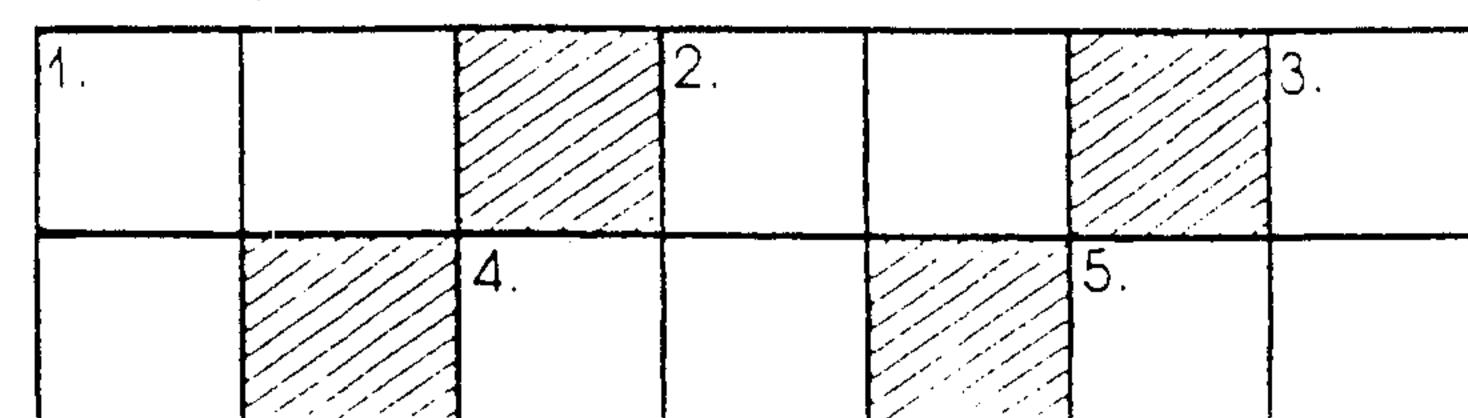
Down







Area



Name:	

SOL Checkpoint Test

5.10 The student will differentiate between area and perimeter and identify whether the application of the concept of perimeter or area is appropriate for a given situation.

For each situation below, decide whether you need to find the perimeter or the area and then solve the problem.

- A local school is designing a playground 120 meters long and 95-meters wide for their schoolyard. How much fencing will be needed to enclose the playground?
 - A. 215 meters
 - B. 430 meters
 - C. 11,400 meters
 - D. 5,700 meters
- 2. The base of the Smith family's triangular-shaped garden is 15 meters. The height of the triangular-shaped garden is 40 meters. How many square meters of flowers will the Smith family plant?
 - A. 600 square meters
 - B. 110 square meters
 - C. 1,200 square meters
 - D. 300 square meters

- 3. Which is an example of area?
 - A. wall to wall carpeting
 - B. picture frame
 - C. hem on a dress
 - D. fencing
- 4. Which is an example of perimeter?
 - A. the length of a pool
 - B. square yards on a football field
 - C. depth of a pool
 - D. distance around the football field
- 5. Which statement has the concept of perimeter?
 - A. Susan jogged down the road.
 - B. Charles filled his bucket with water.
 - C. Rashidah covered her floor with tile.
 - D. Sayida walked around the swimming pool.
- 6. Which statement has the concept of area?
 - A. Susan jogged down the road.
 - B. Charles filled his bucked with water.
 - C. Rashidah covered her floor with tile.
 - D. Sayida walked around the swimming pool.

- 7. A famous Italian painting needs to have its mahogany frame replaced. The painting is 125 feet long and 65 feet wide. You need to determine how much framing material is needed. What concept is used?
 - A. perimeter
 - B. area
 - C. both perimeter and area
 - D. none of the above
- Mrs. Koziol needs to cover her bulletin board with colorful paper. The length of the board is 17 yards, and the width is 1.5 yards. You need to determine how much paper Mrs. Koziol needs. What concept is used to solve this problem?
 - A. perimeter
 - B. area
 - C. both perimeter and area
 - D. none of the above
- 9. Which items below represent the concept of area?
 - A. pool cover, bedspread, barbed wire
 - B. carpeting, ceiling tiles, window frame
 - C. tablecloth, bedspread, pool cover
 - D. fencing, border, picture frame
- 10. Which items below represent the concept of perimeter?
 - A. pool cover, bedspread, barbed wire
 - B. carpeting, ceiling tiles, window frame
 - C. tablecloth, bedspread, pool cover
 - D. fencing, border, picture frame

Name:	

SOL Checkpoint Test

- 5.8 The student will describe and determine the perimeter of a polygon and the area of a square, rectangle, and triangle, given the appropriate measures.
- 1. Patricia is having wall-to-wall carpet installed in her master bedroom. The bedroom is 12 feet long and 8 feet wide. How much carpet should Patricia be prepared to purchase?
 - A. 20 square feet
 - B. 40 square feet
 - C. 96 square feet
 - D. 192 square feet
- 2. What is the area of a triangle with a base of 2 yards and a height of 3 yards?
 - A. 2 square yards
 - B. 3 square yards
 - C. 4 square yards
 - D. 6 square yards

- 3. What is the area of a rectangle whose length is 4 centimeters and width is 2 centimeters?
 - A. 4 square centimeters
 - B. 12 square centimeters
 - C. 6 square centimeters
 - D. 8 square centimeters
- 4. Mr. Johnson must buy enough material to cover his square swimming pool for the winter. If the swimming pool is 45 feet on a side, how much material will he need?
 - A. 2,025 square feet
 - B. 90 square feet
 - C. 180 square feet
 - D. 8,100 square feet
- Mrs. Johnson wants to be sure that her husband builds a fence around the pool while he is making the cover. Based on the measurements in #4 above, how much fencing material will he need?
 - A. 2.025 feet
 - B. 90 feet
 - C. 180 feet
 - D. 8,100 feet

- 6. How do you find the perimeter of a triangle?
 - A. P=length x width
 - B. P=side + side + side
 - C. $P=(base x height) \div 2$
 - D. P=side x side x side
- 7. How do you find the area of a triangle?
 - A. A=length x width
 - B. A=side + side + side
 - C. $A=(base x height) \div 2$
 - D. A=side x side x side
- 8. Georgina is applying fish border around the top of her octagonally-shaped kitchen walls. Each wall is 33 feet in length. How much fish border does she need in all?
 - A. 264 feet
 - B. 264 square feet
 - C. 132 feet
 - D. 132 square feet
- 9. Paul is putting down indoor/outdoor carpet on his new deck. The rectangular-shaped deck is 65.5 feet long and 40 feet wide. How much carpet will he need to purchase?
 - A. 105.5 square feet
 - B. 211 square feet
 - C. 2.620 square feet
 - D. 262.0 square feet

- 10. Alan's rectangular backyard has an area of 6,000 square feet. If the length of the backyard is 80 feet, how wide is the backyard?
 - A. 5,920 feet
 - B. 480,000 feet
 - C. 6,080 feet
 - D. 75 feet

The Metric System

Choose the smaller unit of measure. Circle a or b.

- 1. a. kilogram
- 2. a. centimeter
- b. milligram

- b. decimeter
- 3. a. liter
 - b. milliliter

= KNOW

USE WHAT YOU

Choose the larger unit of measure. Circle a or b.

4. a. milliliter

b. liter

- 5. a. kilometer
 - b. millimeter
- 6. a. gram
 - b. kilogram

Complete the table.

Com	plete the	e table.		den	cm	mm
		km	m	dm		8,000
_ [8 m	0.008	8		800	
7.			-	20	200	2,000
8.	2 m		2			0000
		0.02	20	200		20,000
9.	20 m	0.02			0.500	
40	35 m	0.035	35	350	3,500	
10.						

Write each as a decimal, using the base unit.

- 11. 3 g
- 12. 20 mL
- 13. 16 mm
- 14. 23 mg
- 15. 9 cm

Mixed Applications

- 16. Suzanne needs a piece of wire 22 dm long. Joey needs a piece of wire 22 cm long. Who needs the longer piece?
- 17. Barbara made a clay sculpture that has a mass of 92 kg. If Luis wants to make a similar sculpture that is $\frac{1}{1,000}$ the size of Barbara's, how much clay will he need?

EVERYDAY MATH CONNECTION

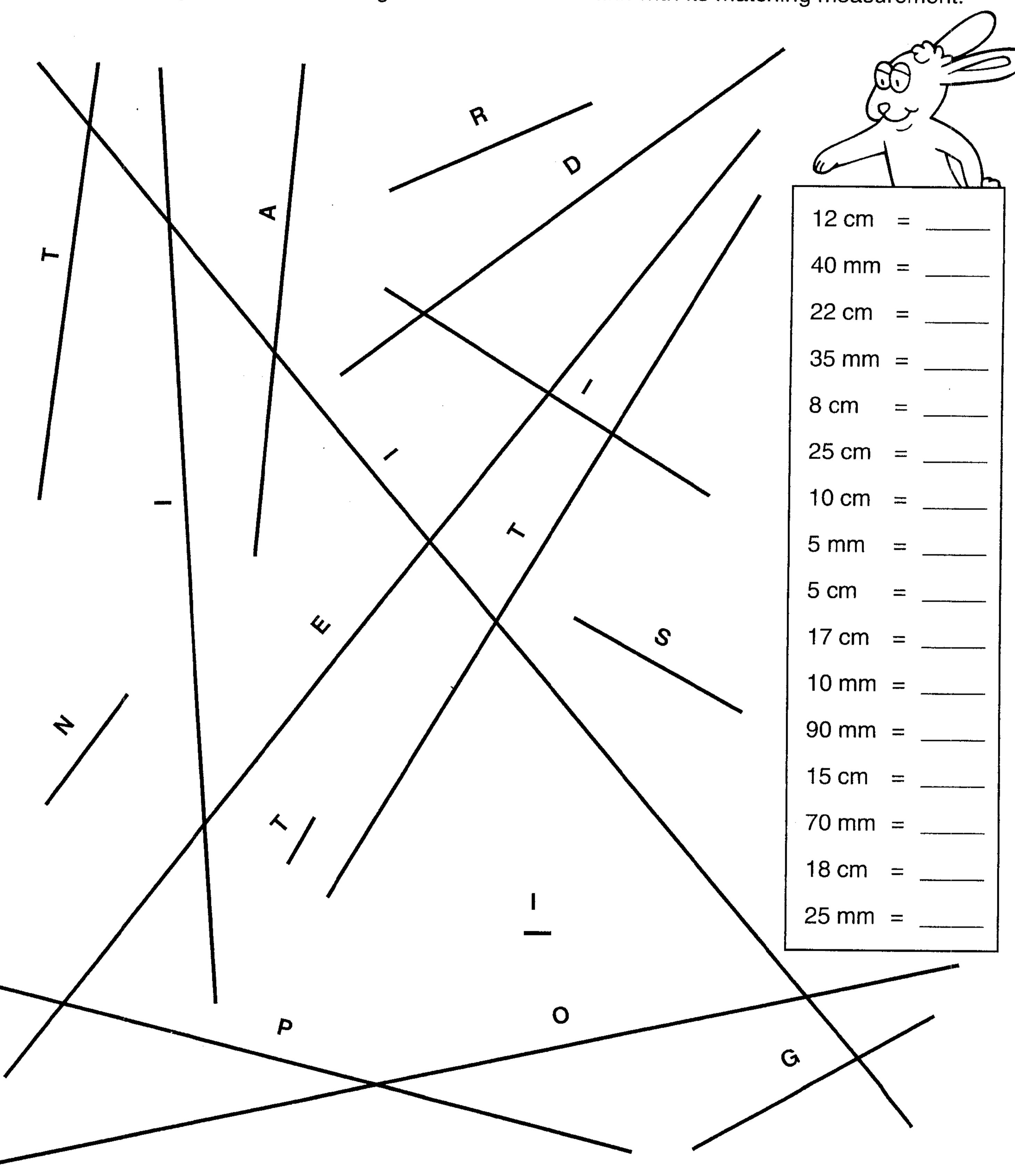
Carlos is painting the 8 rooms of his house. All the rooms are the same size. He needs 11.4 L to paint one room.

- 18. How much paint will he need to paint 4 rooms?
- 19. How much paint will he need to paint all 8 rooms?

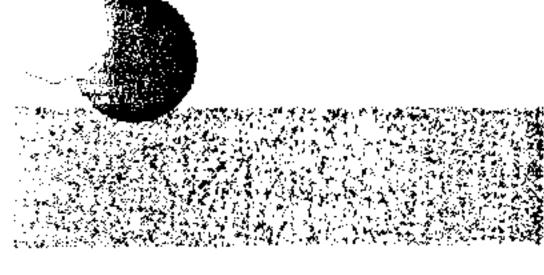
Now You See It... Now You Don't!

Sleight of hand is one of the most common kinds of magic. It includes tricks that depend on the skillful use of the hands. Sleight-of-hand tricks are often performed with a deck of cards. One of the oldest sleight-of-hand routines was performed in ancient Egypt!

Complete the puzzle below to learn another name for sleight of hand. Use a metric ruler to measure each segment. Write the segment name in the blank with its matching measurement.

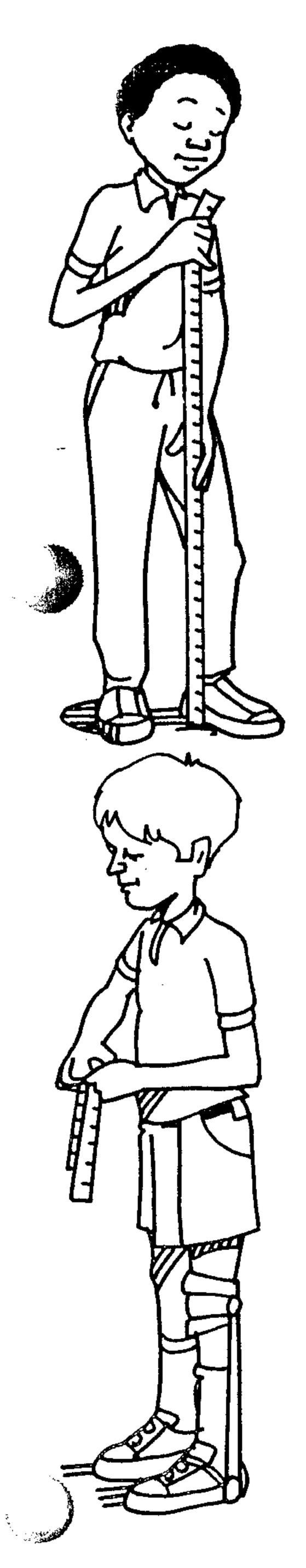


lame	 Activity Worksheet 2



Measuring Yourself

Use a customary measuring tape to measure different parts of your body. Write each measurement to the nearest inch, half-inch, quarter-inch and eighth-inch.



What to Measure	nearest inch	to nearest $\frac{1}{2}$ inch	to nearest $\frac{1}{4}$ inch	to nearest $\frac{1}{8}$ inch
Around your head				-
Around your waist				
Around your ankle				
Around your neck				
Around your fist				
From your nose to your knee				
From your knee to your big toe				
From your shoulder to your thumbnail				
From your waist to the floor (standing up)				
From your left ear to your right ear		•		
The farthest apart you can get your hands				

Name _

The Metric System

USE WHAT YOU KNOW

Choose the smaller unit of measure. Circle a or b.

1. a. kilogram

b. milligram

- 2. a. centimeter
 - ь. decimeter
- 3. a. liter
 - b. milliliter

Choose the larger unit of measure. Circle a or b.

4. a. milliliter

b. liter

- 5. a. kilometer
 - b. millimeter
- 6. a. gram
 - ь. kilogram

Complete the table.

		km	m	dm	cm	mm
7.	8 m	0.008	8		800	8,000
8.	2 m		2	20	200	2,000
9.	20 m	0.02	20	200		20,000
10.	35 m	0.035	35	350	3,500	
10.	1	4,04				<u></u>

Write each as a decimal, using the base unit.

- 11. 3 g
- 12. 20 mL
- 13. 16 mm
- 14. 23 mg
- 15. 9 cm

Mixed Applications

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EVERYDAY MATH CONNECTION

Carlos is painting the 8 rooms of his house. All the rooms are the same size. He needs 11.4 L to paint one room.

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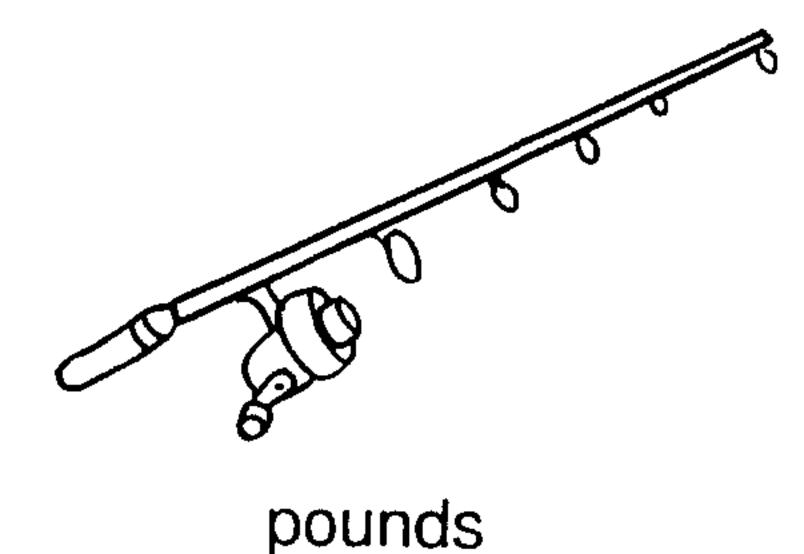
Great Catch!

5.80

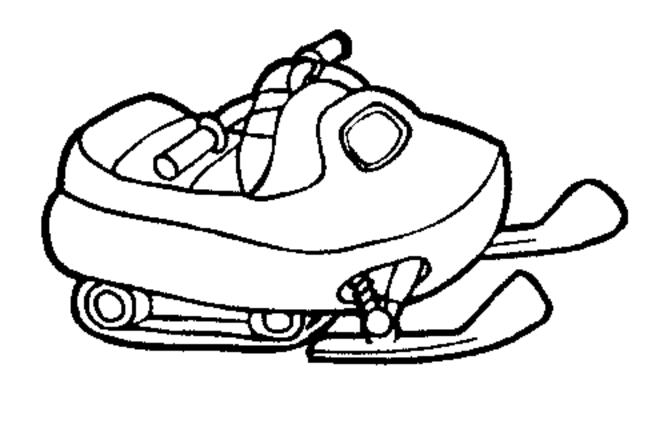
Color the item green if the unit of measure is reasonable. Color the item blue if the unit of measure is not reasonable.

Then cross out the unreasonable unit and write the correct unit next to it. Use the word bank for help.

1. fishing rod and reel

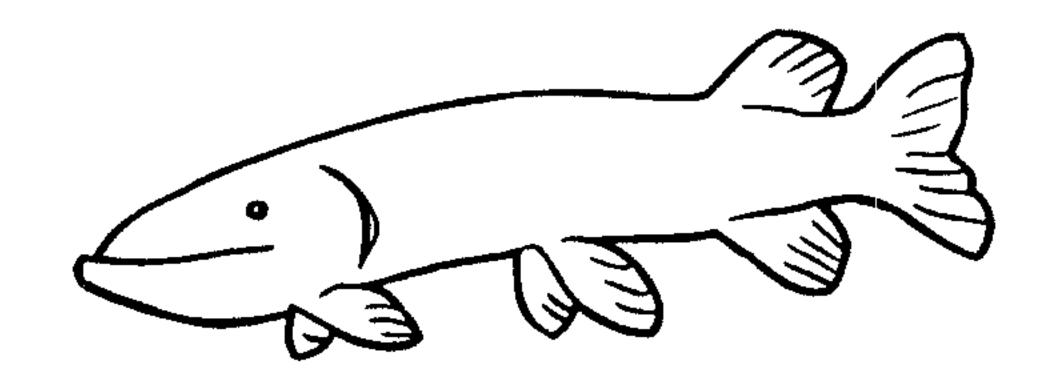


2. snowmobile



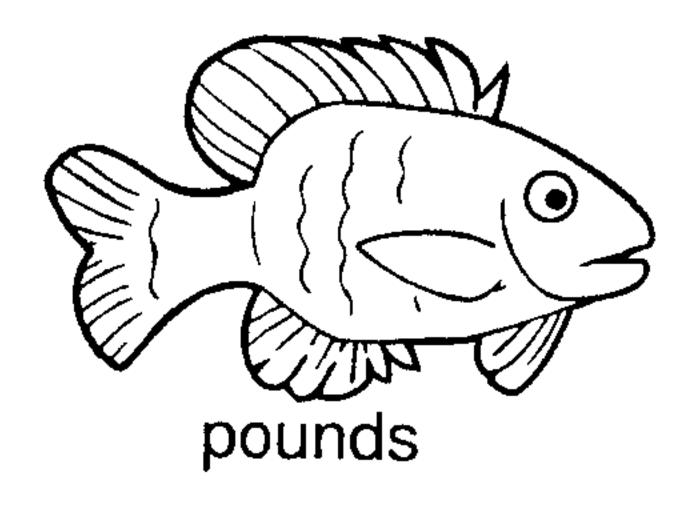
tons

3. two-foot-long northern pike

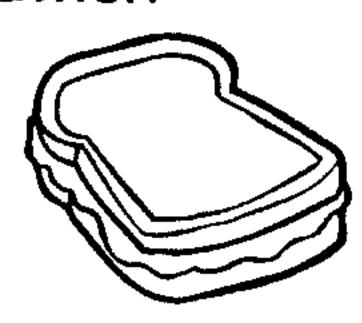


ounces

4. three-inch-long bluegill

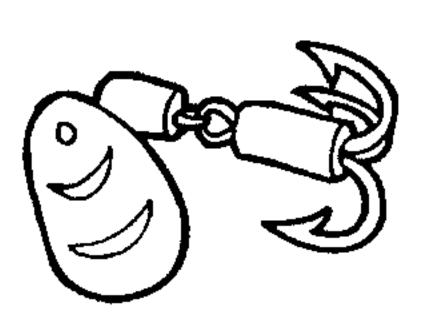


5. peanut butter and jelly sandwich



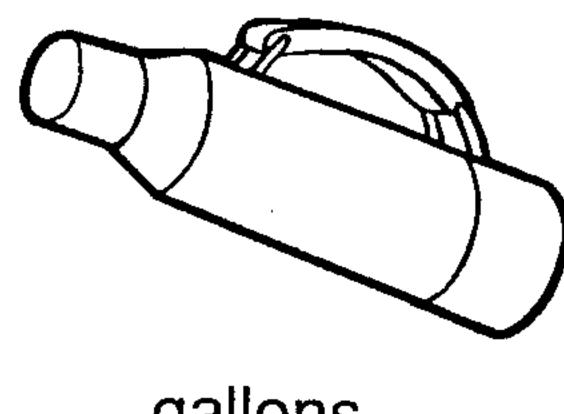
pounds

6. fishing lure



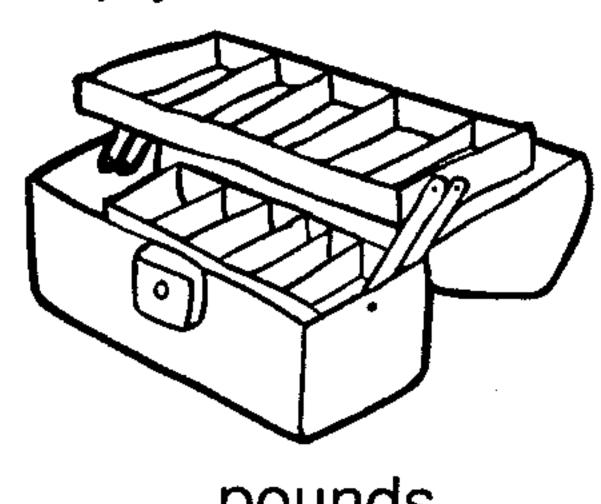
ounces

7. thermos of coffee



gallons

8. empty tackle box



pounds

8

7 8 <u>0</u>



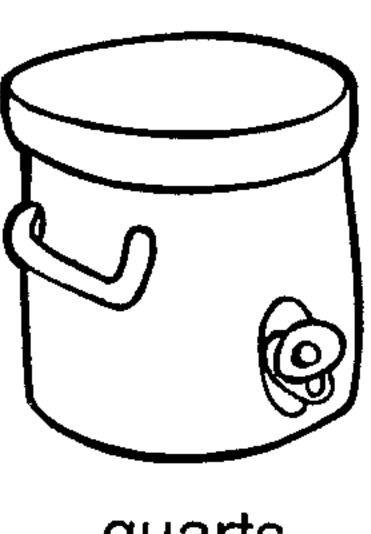
Word Bank
ounces cups
pounds quarts
tons gallons

9. bag of chips



ounces

10. water cooler



quarts

93. IIIUIIX I CIIIICUI and Auca

MATERIALS Activity Worksheet 27, customary measuring tapes, rectangular objects

Hold up a rectangular object and discuss which dimension is its length and which is its width. Measure its length to the nearest inch, half-inch, and quarter-inch. Point out that the smaller measure is more precise to use. Repeat for the width.

Review the meaning of perimeter as the measure of the distance around the rectangle. Add the measures of the lengths of all the sides of the rectangle to find the perimeter.

Discuss the meaning of area as the number of square units that fill the inside of the rectangle. The area of a rectangle can be found by multiplying its length by its width.

Distribute Activity Worksheet 27 and have students work in pairs to complete the worksheet.

EXTENSIONS Extend the activity with these:

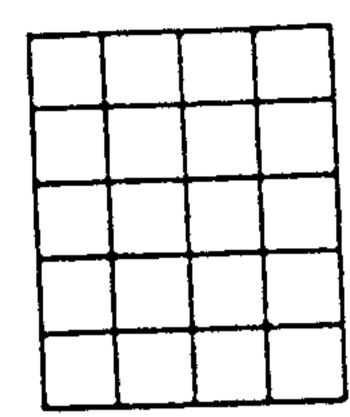
a. Measure the objects on the worksheet to the nearest half-inch or quarter-inch. Calculate the perimeter and area and compare the results with the first results.

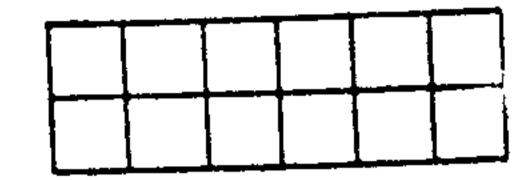
•

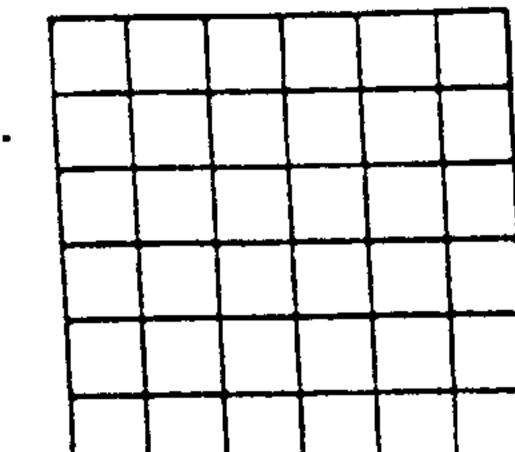
b. Find perimeter and area of triangular objects.

Finding Area

Find the area by counting the unit squares.

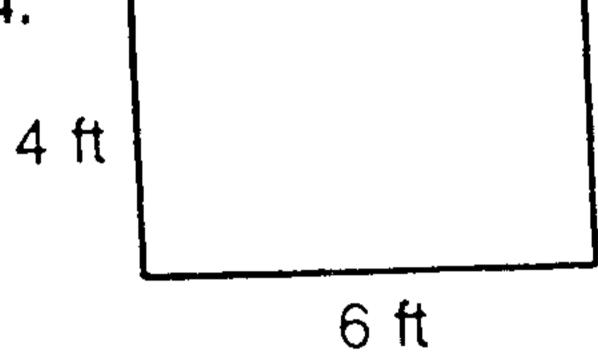




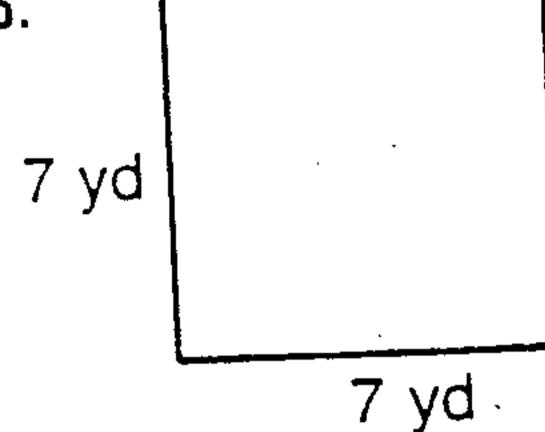


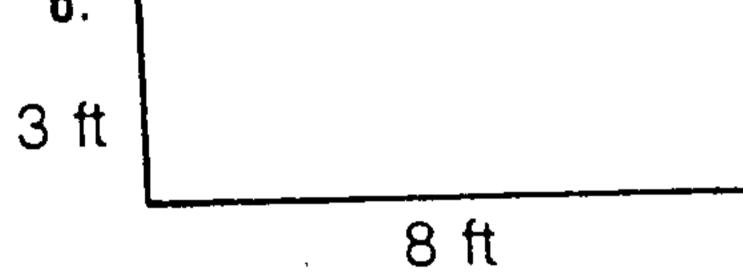
Find the area by multiplying.

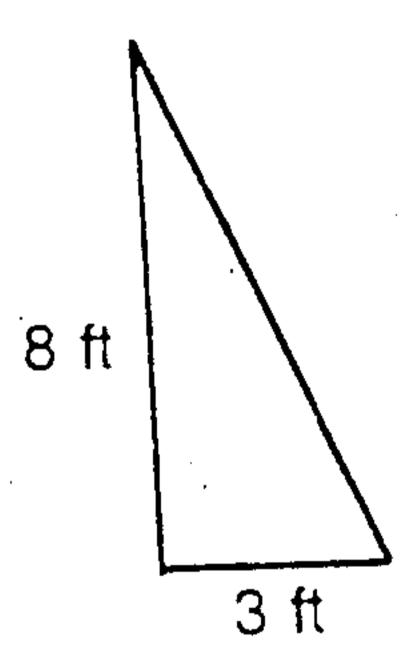
4.

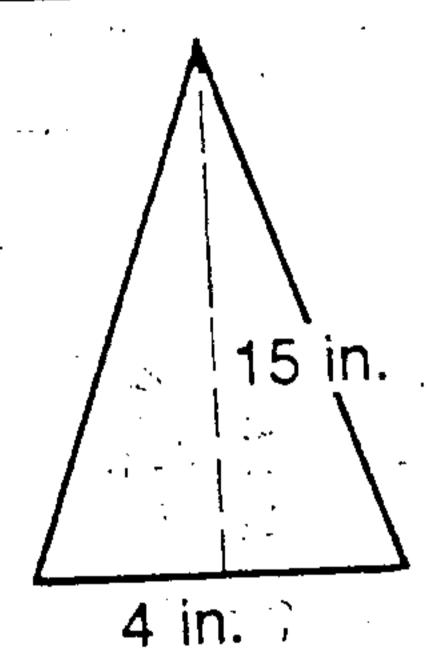


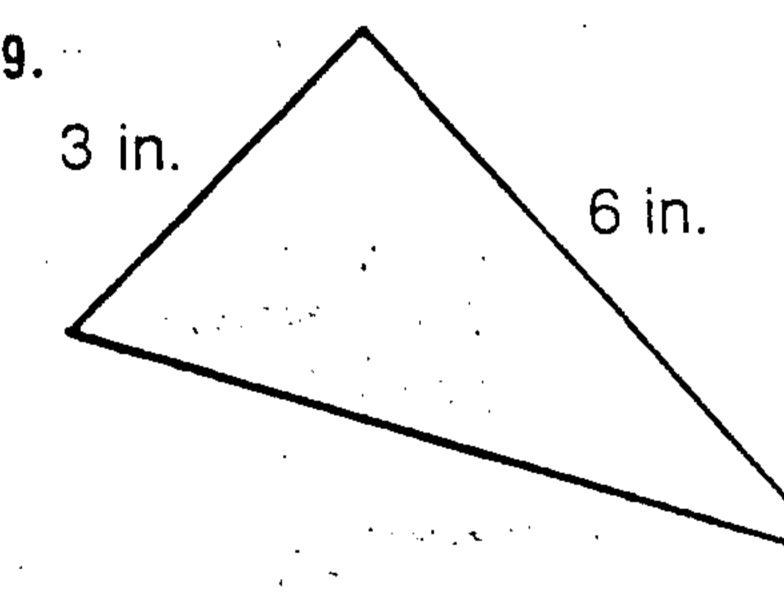
5.











Mixed Review

Write each answer in lowest terms.

1.
$$2\frac{1}{8} + 4\frac{3}{8}$$

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

3.
$$1\frac{1}{7} + 2\frac{1}{7}$$

4.
$$8\frac{3}{4}$$
 -

5.
$$3\frac{6}{7} - 2\frac{1}{7}$$

6.
$$4\frac{7}{8} - 2\frac{5}{8}$$

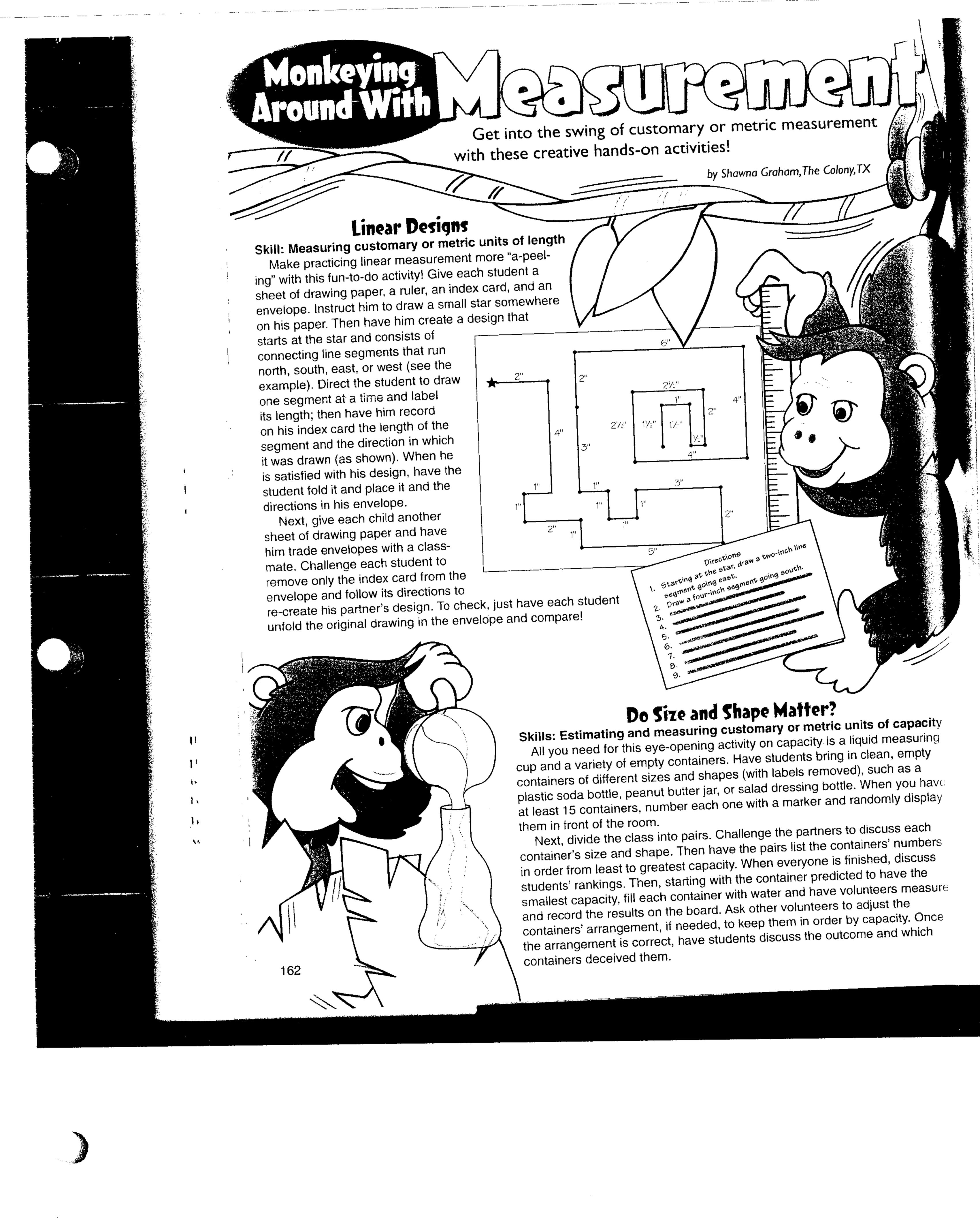
7.
$$\frac{1}{2} \times 3$$

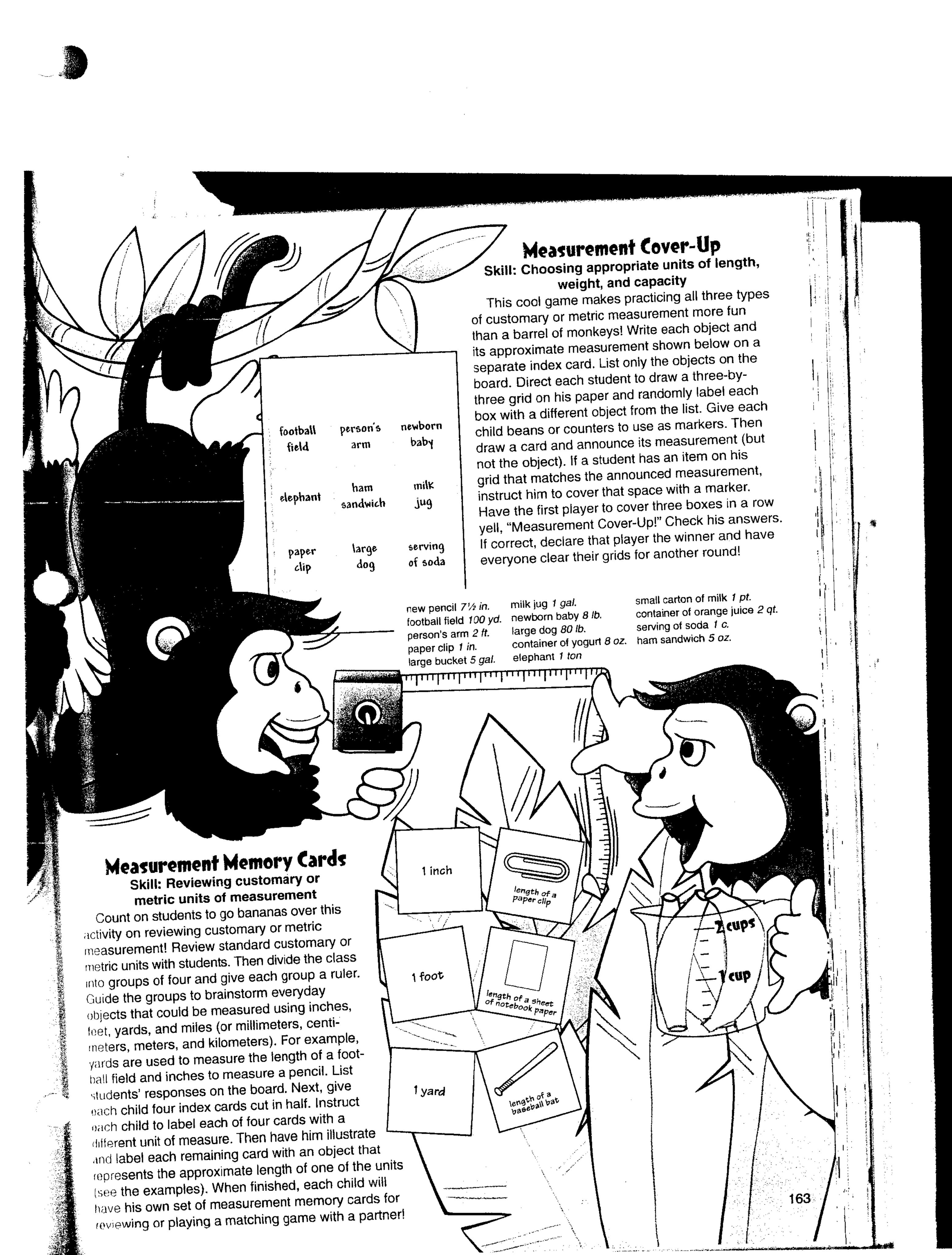
9.
$$\frac{3}{8} \times 4$$

10.
$$\frac{1}{16} \div \frac{1}{8}$$

11.
$$\frac{2}{3} \div \frac{3}{4}$$

12.
$$\frac{1}{5} \div \frac{1}{10}$$





and describe the diameter, radius, chord, and circumference of a cil

The student will identify

5.9

ASUREMENT ND: J

	UNDERSTANDING THE STANDARD (Background Information for Instructor Use Only)	ESSENTIAL UNDERSTANDINGS	ESSENTIAL KNOWLEDGE AND SKILLS
•	A circle is a set of points on a flat surface (plane) with every point equidistant from a given point	All students should	The student will use problem solving, mathematical communication, mathematical reasoning connections and
-	called the center.	• Understand that a chord is a line segment that extends between any two unique points of a	S
•	A chord is a line segment connecting any two	circle.	• Identify and describe the diameter, radius, chord, and
···	points on a circle. Students will benefit from understanding that a chord goes from one side of	• Understand that a diameter is also a special	circumference of a circle.
· <u>-</u> -		chord that goes through the center of a circle.	• Describe the relationship between
	through the center.	• Understand the relationship between the	- diameter and radius;
•	A diameter is a chord that goes through the center	measures of diameter and radius and the relationship between the measures of radius	 – unameter and chord; – radius and circumference; and
	of a circle, the diameter is two times the radius. A radius is a segment from the center of a circle	and circumference.	- diameter and circumference.
. <u> </u>	to any point on the circle. Two radii end-to-end	• Understand that a radius is a line segment	• The length of the diameter of a circle is twice the length of the radius.
		circumference of the circle	
	Circumiference is the distance around or perimeter of a circle. The circumference is about 3 times	• Inderetand that the circumference is the	
	the	-	
		measure of the circumference.	