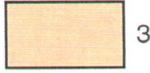
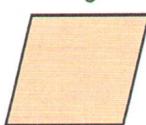
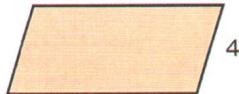
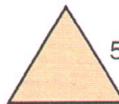


Perimeter Formulas

Use the formula to find the perimeter of each shape. Show each step.

Skills:

Calculating
Perimeters
Using Formulas

Shape	Formula	Perimeter
 square	$P = 4 \times s$	$P = 4 \times \underline{\hspace{2cm}}$ $P = \underline{\hspace{2cm}}$
 rectangle	$P = (2 \times w) + (2 \times l)$	$P = (2 \times \underline{\hspace{2cm}}) + (2 \times \underline{\hspace{2cm}})$ $P = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ $P = \underline{\hspace{2cm}}$
 rhombus	$P = 4 \times s$	$P = 4 \times \underline{\hspace{2cm}}$ $P = \underline{\hspace{2cm}}$
 parallelogram	$P = (2 \times w) + (2 \times l)$	$P = (2 \times \underline{\hspace{2cm}}) + (2 \times \underline{\hspace{2cm}})$ $P = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ $P = \underline{\hspace{2cm}}$
 equilateral triangle	$P = 3 \times s$	$P = 3 \times \underline{\hspace{2cm}}$ $P = \underline{\hspace{2cm}}$

Remember:

P = perimeter

s = side

w = width

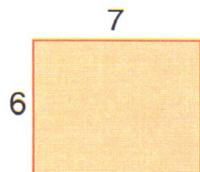
l = length

Math Recipes

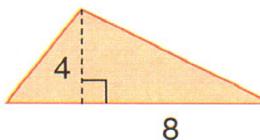
Give Me Your Area

Area is the size of a flat surface in square units. Find the area of each shape.

1.



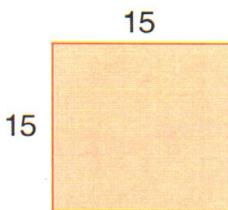
6.



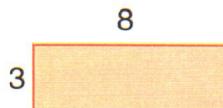
2.



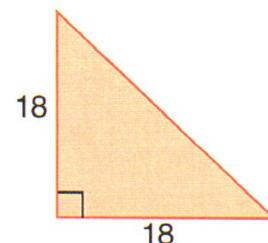
7.



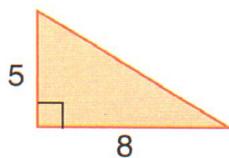
3.



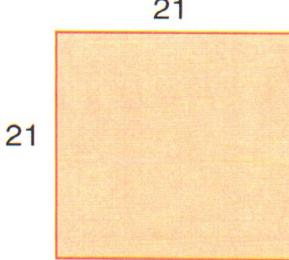
8.



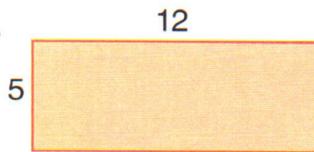
4.



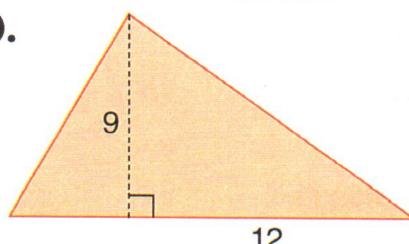
9.



5.



10.

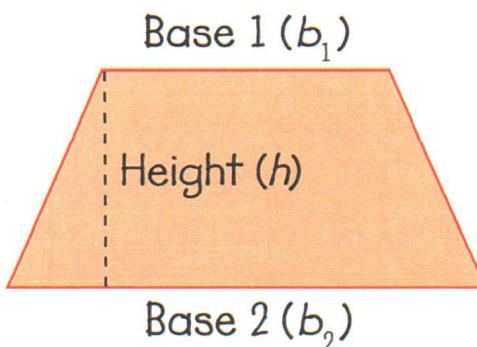


Remember:

- Find the area of a square or rectangle by multiplying height times the base.
- Find the area of a triangle by multiplying the height by the base and dividing by 2.

Order of Operations

Julie's older sister is working a geometry homework problem. She is finding the area of a trapezoid.



Skills:

Using Order of Operations

Determining Area of a Trapezoid

Her sister explains that the formula for finding the area of the trapezoid is:

$$A = \frac{1}{2} \times (b_1 + b_2) \times h$$

This formula means that you first add the lengths of the two bases (since they are in parentheses) and then multiply that sum by $\frac{1}{2}$. Then you multiply the result by the height. This gives you the area of the trapezoid.

Use this formula and follow the order of operations to complete the table below for the area of three different trapezoids.

	Base 1	Base 2	Height	Area
Trapezoid 1	4 inches	6 inches	3 inches	
Trapezoid 2	5 inches	8 inches	4 inches	
Trapezoid 3	10 inches	15 inches	6 inches	

Remember:

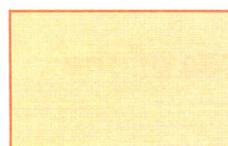
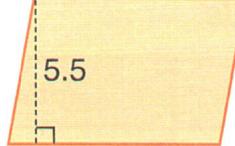
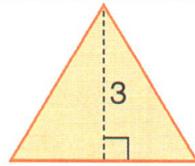
If you need a reminder for how to do order of operations, refer to page 9.

Skills:

Calculating Area Using
Formulas

My Area Is...

Use the formula to find the area of each shape. Show each step.

Shape	Formula	Area
 square	$A = s^2$	$A = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$ $A = \underline{\hspace{2cm}}$ square units
 rectangle	$A = b \times h$	$A = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$ $A = \underline{\hspace{2cm}}$ square units
 rhombus	$A = b \times h$	$A = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$ $A = \underline{\hspace{2cm}}$ square units
 parallelogram	$A = b \times h$	$A = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$ $A = \underline{\hspace{2cm}}$ square units
 equilateral triangle	$A = \frac{b \times h}{2}$	$A = \frac{\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}}{2}$ $A = \underline{\hspace{2cm}}$ square units

Remember:

A = area

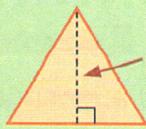
s = side

b = base

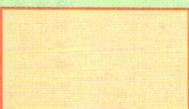
h = height



side



base



base

Turn Up the Volume

Volume is the amount of space contained inside a three-dimensional shape. Find the volume of each shape below by multiplying length by height by width.

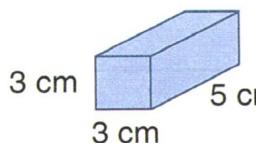
$$\text{Volume} = \text{length} \times \text{height} \times \text{width}$$

$$V = l \times h \times w$$

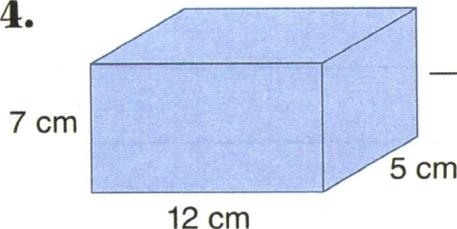
Skills:

Calculating
Volume of
Cubes and
Rectangular
Prisms

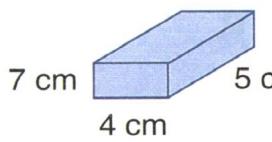
1.



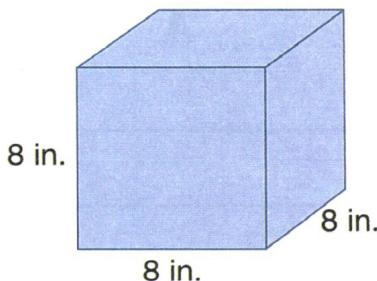
4.



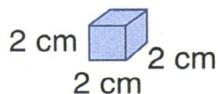
2.



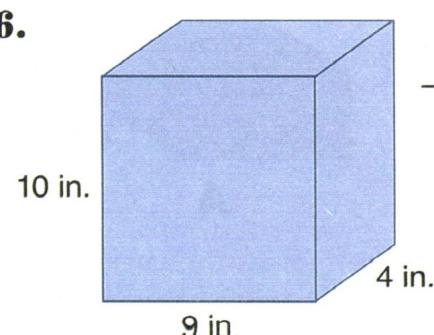
5.



3.



6.



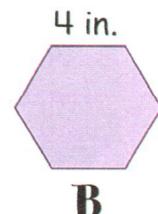
Skills:

Calculating
Perimeter,
Area, and
Volume

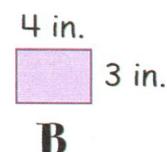
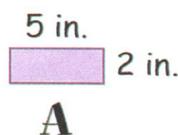
How Large Is It?

Solve these problems.

- 1.** Given these two shapes, tell which has a larger perimeter and why.



- 2.** Given these two shapes, tell which has a larger area and why.



- 3.** Given these two boxes, tell which has a larger volume and why.

