


# PERIMETER MATCH

Find the *perimeter* of each rectangle, then draw at least 2 rectangles that have the same perimeter.

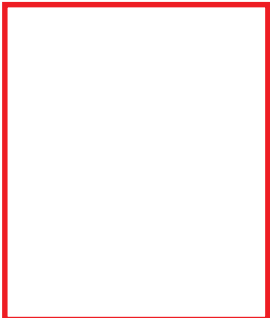
15 ft



5 ft

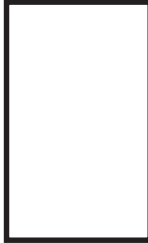
40 ft

8 ft



12 ft


3 ft



9 ft

10 ft



7 ft

# Find a New Home

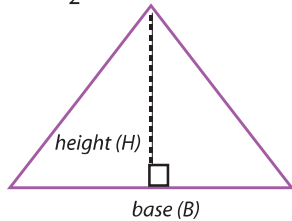


Help Mr. Rabbit find his new home. The total area of his place has to be at least **60** square feet. This includes the area of a roof (triangle) plus the area of the house (rectangle).

## Review:

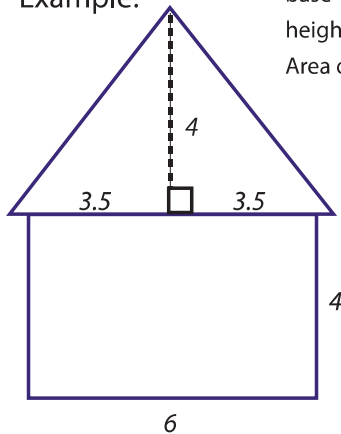
**Rectangle Area** = length x width

**Triangle Area** =  $\frac{1}{2}$  x base x height



The base of a triangle can be any one of its sides.  
The height is the distance from a base to its opposite point, or vertex.  
A base must be perpendicular to its height.

## Example:



$$\text{base} = 3.5 + 3.5 = 7$$

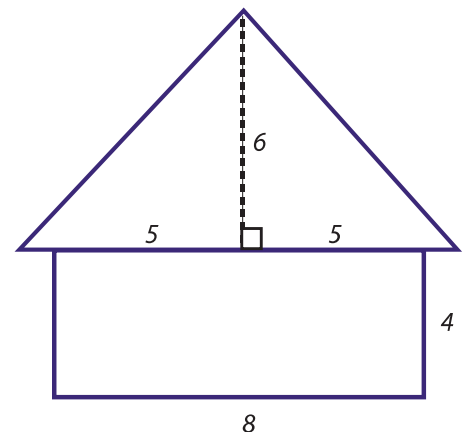
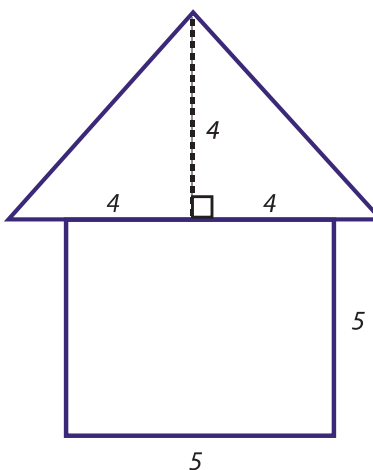
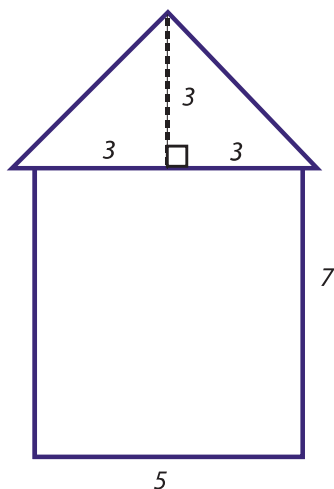
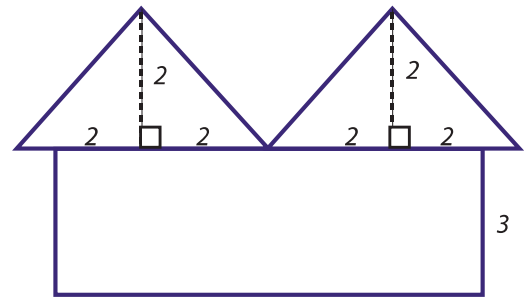
$$\text{height} = 4$$

$$\text{Area of the roof} = \frac{1}{2} \times \text{base} \times \text{height}$$

$$= \frac{1}{2} \times 7 \times 4 = 14$$

$$\text{Area of the rectangle} = 6 \times 4 = 24$$

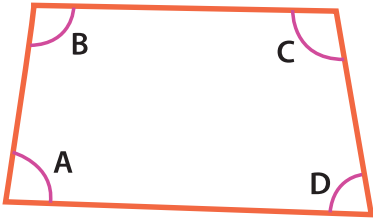
$$\text{Total area} = 14 + 24 = 38 \text{ square feet.}$$



Which home should Mr. Rabbit move into? Circle it.

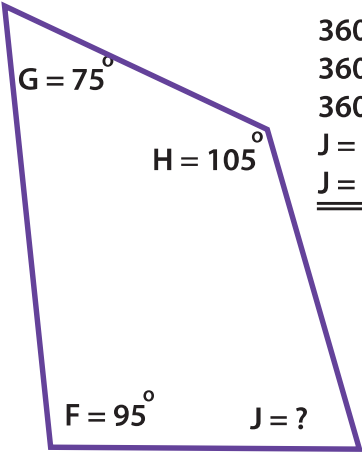
# The Missing Angle: Quadrilaterals

In every quadrilateral, all four angles add up to  $360^\circ$ .

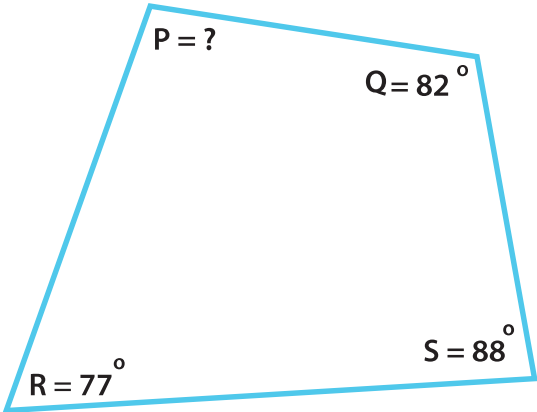
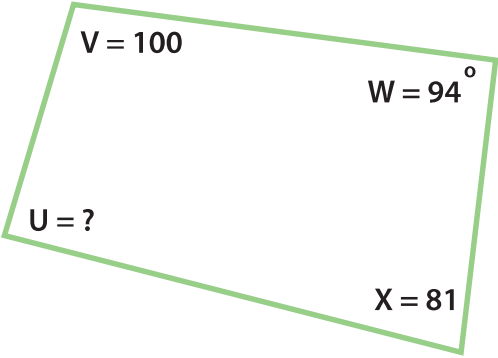
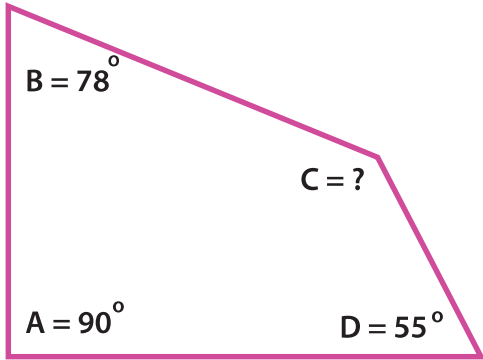


$$360 = A + B + C + D$$

Use this rule to find the missing angle in the quadrilaterals. See the example.



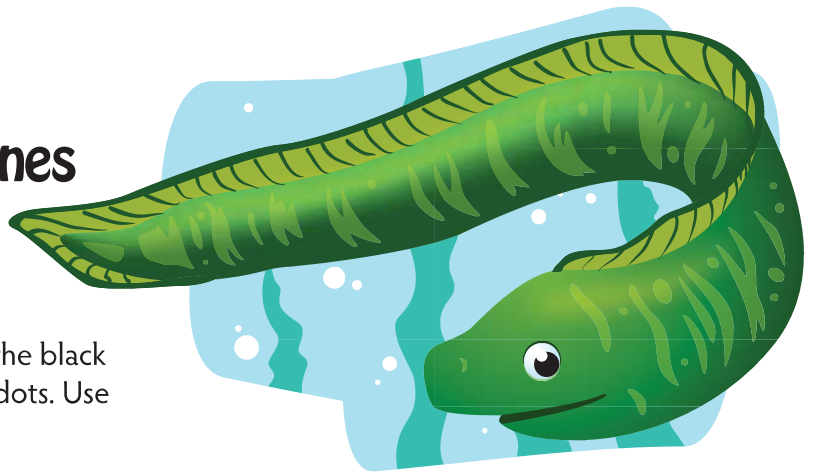
$$\begin{aligned} 360^\circ &= F + G + H + J \\ 360^\circ &= 95^\circ + 75^\circ + 105^\circ + J \\ 360^\circ &= 275^\circ + J \\ J &= 360^\circ - 275^\circ \\ \underline{J} &= \underline{85^\circ} \end{aligned}$$





# Parallel and Perpendicular lines

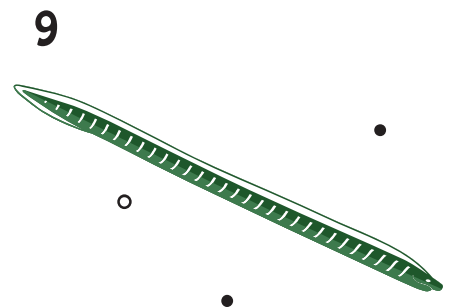
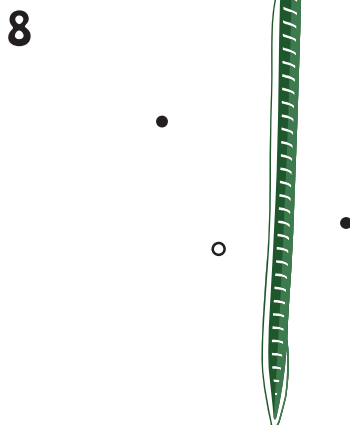
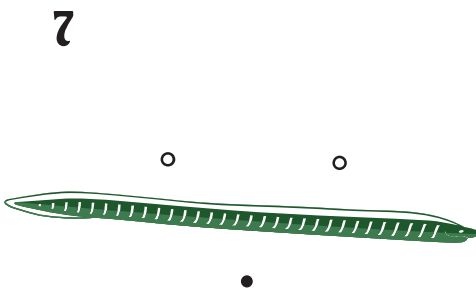
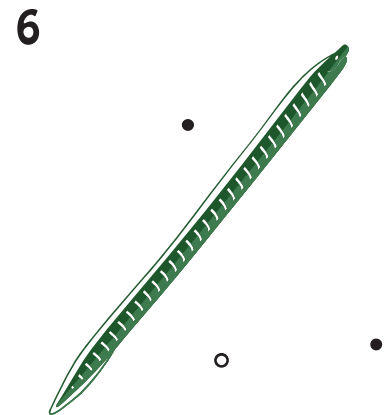
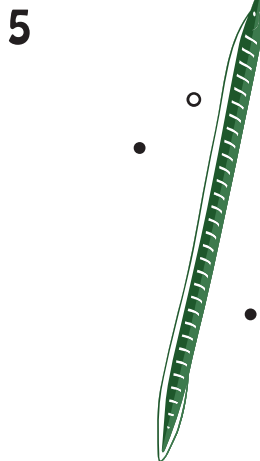
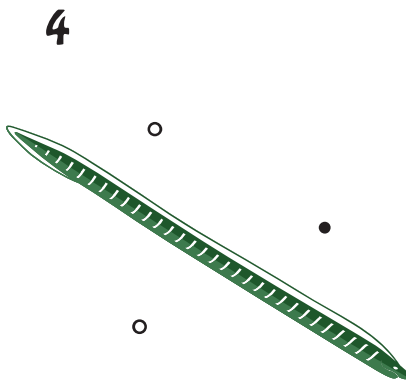
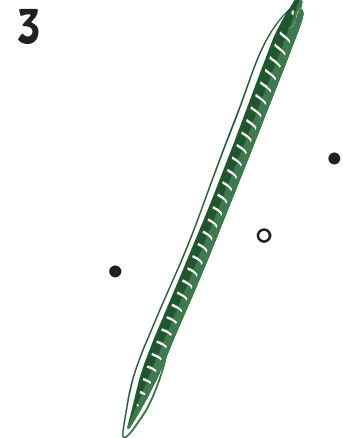
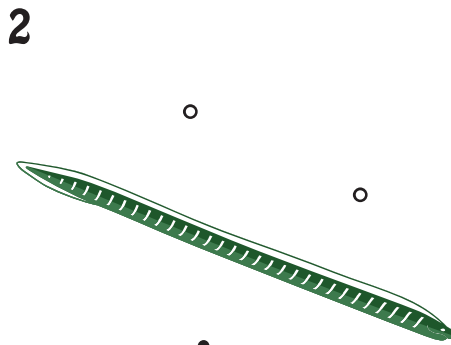
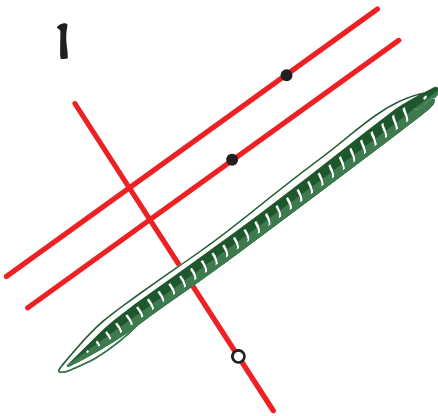
Elouisa the Eel



Elouisa the Eel needs help learning parallel and perpendicular lines. Draw parallel lines through the black dots and perpendicular lines through the white dots. Use a ruler to help you draw straight lines.

● Parallel

○ Perpendicular





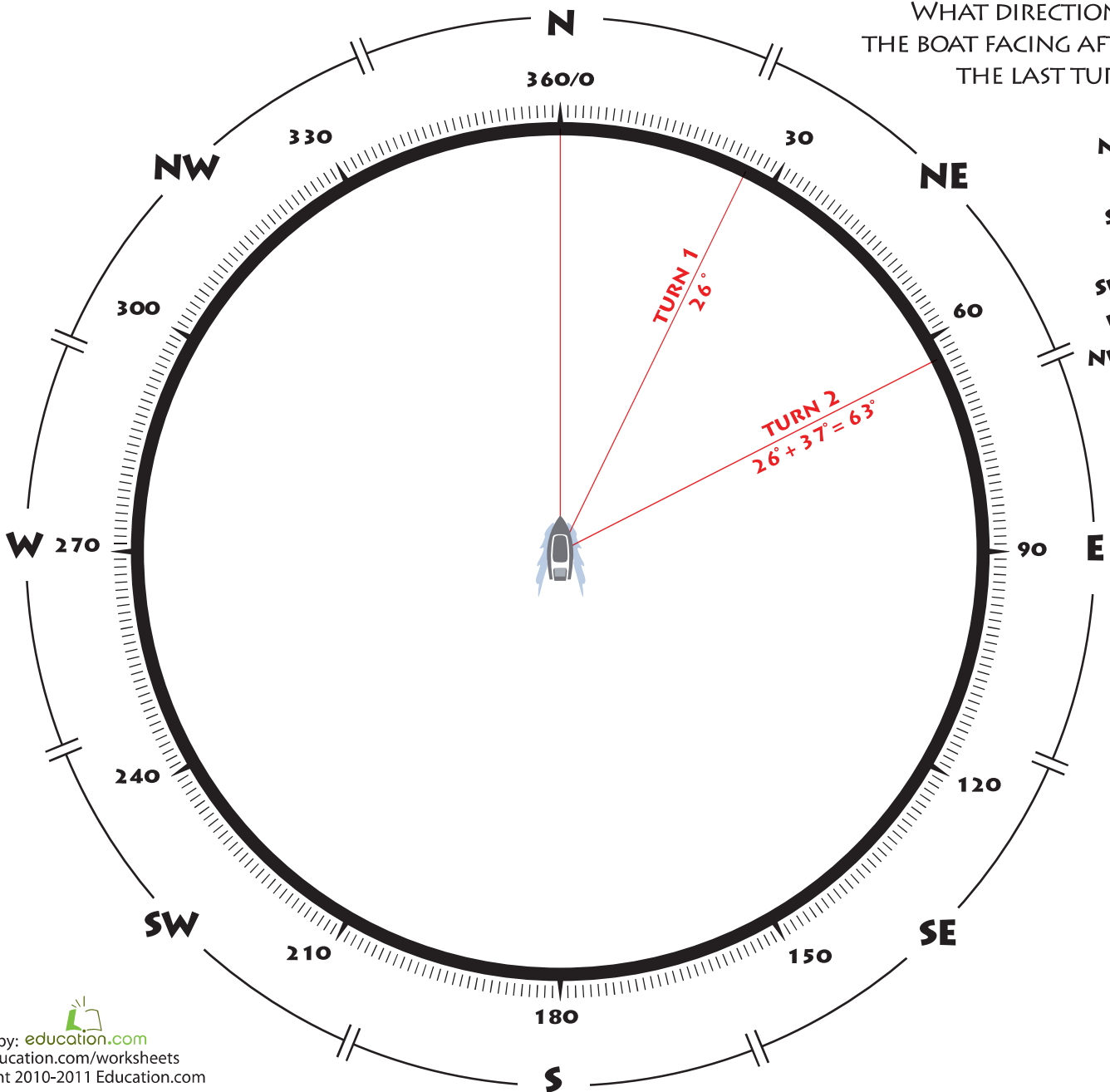
# ANGLE STEERING



Steering a ship requires practice and precision. It also requires you to think about math and angles.

Turn the ship's wheel according to the angle measurements given. See the examples below. With each new turn, indicate the ship's new direction by drawing a line towards it. Turn clockwise if the angle is positive, counterclockwise if it is negative. Use a ruler to help you draw straight lines.

	1	2	3	4	5	6	7	8	9	10	11	12
Turn Degrees	+26°	+37°	-51°	+153°	-92°	-30°	-9°	+185°	-67°	+49°	+93°	-60°
New Direction	26°	63°										

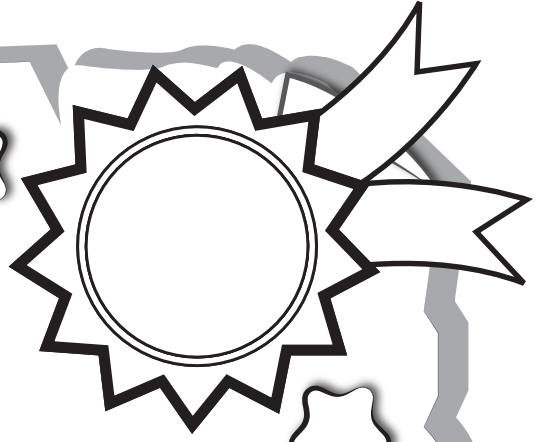


WHAT DIRECTION IS THE BOAT FACING AFTER THE LAST TURN?

- N
- NE
- E
- SE
- S
- SW
- W
- NW

Great job!

\_\_\_\_\_ is an Education.com math superstar



# Answer Sheets

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## Geometry and Measurement

Acute Triangle: Practice Finding Area  
Units of Measurement  
Hours, Days, and Weeks  
The Right Time  
Traveling to the South Pole: Practice Coordinates and Perimeter  
Perimeter Match #1  
Geometry Detective: Triangle #1  
Obtuse Triangle: Practice Finding Area  
Identifying Triangles: Acute Triangles  
Identifying Triangles: Right Triangles  
Identifying Triangles: Obtuse Triangles  
Geometry Detective: Triangle #2  
Perimeter Match #2  
Right Triangle: Practice Finding Area  
Perimeter Match #3  
Finding Area: Medium  
Pentagon: Calculating Area  
Perimeter Match #4  
Find a New Home  
The Missing Angle: Quadrilaterals  
Parallel and Perpendicular Lines  
Angle Steering

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# Answer Sheet

4th  
Grade

## Answer Sheet Acute Triangle: Practice Finding Area

Use the clues provided to find the area of each triangle. Show your work.

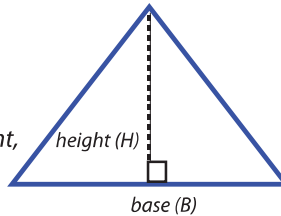
**Review:**

$$\text{Triangle Area} = \frac{1}{2} \times \text{base} \times \text{height}$$

The base of a triangle can be any one of its sides.

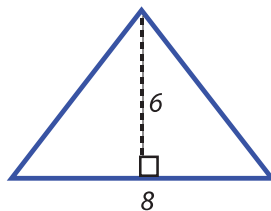
The height is the distance from a base to its opposite point, or vertex.

A base must be perpendicular to its height.



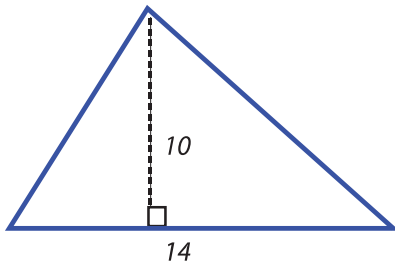
An acute triangle is a triangle that has three acute angles (angles that measure between 0 and 90 degrees).

**Example:**



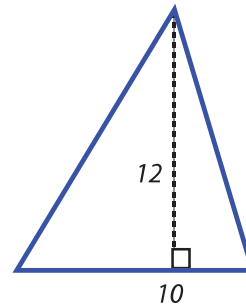
$$\begin{aligned} \text{Base} &= \underline{8} \text{ ft.} \\ \text{Height} &= \underline{6} \text{ ft.} \\ \text{Area} &= \frac{1}{2} \times 8 \times 6 \\ &= \underline{24} \text{ ft.} \end{aligned}$$

1



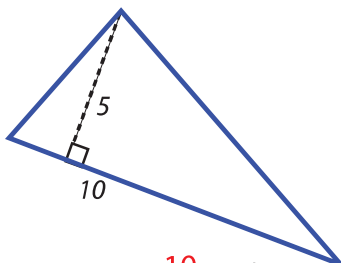
$$\begin{aligned} \text{Base} &= \underline{14} \text{ ft.} \\ \text{Height} &= \underline{10} \text{ ft.} \\ \text{Area} &= \frac{1}{2} \times 14 \times 10 \\ &= \underline{70} \text{ sq.ft.} \end{aligned}$$

2



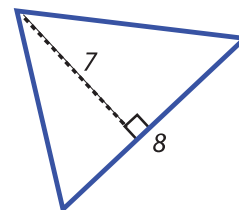
$$\begin{aligned} \text{Base} &= \underline{10} \text{ ft.} \\ \text{Height} &= \underline{12} \text{ ft.} \\ \text{Area} &= \frac{1}{2} \times 10 \times 12 \\ &= \underline{60} \text{ sq.ft.} \end{aligned}$$

3



$$\begin{aligned} \text{Base} &= \underline{10} \text{ ft.} \\ \text{Height} &= \underline{5} \text{ ft.} \\ \text{Area} &= \frac{1}{2} \times 10 \times 5 \\ &= \underline{25} \text{ sq.ft.} \end{aligned}$$

4



$$\begin{aligned} \text{Base} &= \underline{8} \text{ ft.} \\ \text{Height} &= \underline{7} \text{ ft.} \\ \text{Area} &= \frac{1}{2} \times 8 \times 7 \\ &= \underline{28} \text{ sq.ft.} \end{aligned}$$



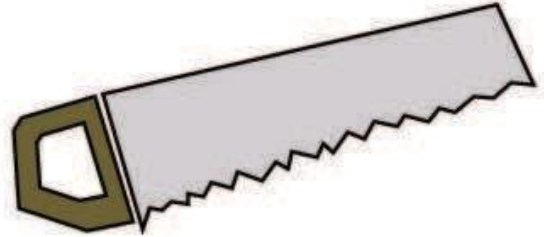
# Answer Sheet

## Units of Measurement

Help Franky decide what is the best unit of measurement to bulid areas of his house!

1. Length of the bedroom

- a. Inches      b. Miles  
c. Millimeters      **d. Feet**



2. Height of ceiling

- a. Feet**      b. Kilometers  
c. Miles      d. Centimeters

3. Width of fence boards

- a. Miles      b. Yards  
**c. Inches**      d. Feet

4. Water for pool

- a. Cups      **b. Gallons**  
c. Tablespoons      d. Liters

5. Length of lawn

- a. Centimeters      b. Kilometers  
**c. Yards**      d. Inches



# Answer Sheet

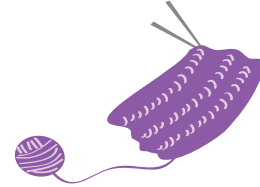
Math  
Time

## Hours, Days, and Weeks

Answer the questions by converting the units of time.  
Remember, 1 day equals 24 hours and 1 week equals 7 days.

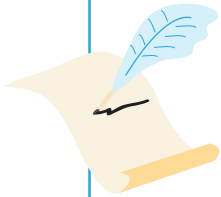
Grandma knitted a scarf for me in 2 weeks. How many days did it take her?

$$(2 \text{ weeks}) \times (7 \text{ days}) = 14 \text{ days}$$



Mr. Waterstone wrote a letter to Ms. Jacobs. It took 4 weeks to arrive. How many days did it take?

$$(4 \text{ weeks}) \times (7 \text{ days}) = 28 \text{ days}$$



Tom rode a hot air balloon across the ocean. He was on the balloon for 3 days. How many hours was he on the balloon?

$$(3 \text{ days}) \times (24 \text{ hours}) = 72 \text{ hours}$$



It took Mr. Carpenter a week and one day to fix the fence. How many hours did he spend fixing the fence?

$$(1 \text{ week}) + (1 \text{ day}) = 8 \text{ days}$$
$$(8 \text{ days}) \times (24 \text{ hours}) = 192 \text{ hours}$$



Meg read a book in 3 weeks, 2 days, and 3 hours. How many hours did she spend reading the book?

$$(3 \text{ weeks}) + (2 \text{ days}) = 23 \text{ days}$$
$$(23 \text{ days}) \times (24 \text{ hours}) = 552 \text{ hours}$$
$$(552 \text{ hours}) + (3 \text{ hours}) = 555 \text{ hours}$$

