

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_ ID: \_\_\_\_\_

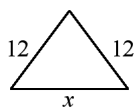
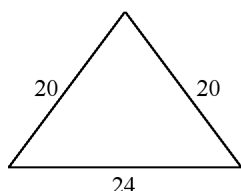
A

Scale

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

The triangles below are similar. Find the value of  $x$ .

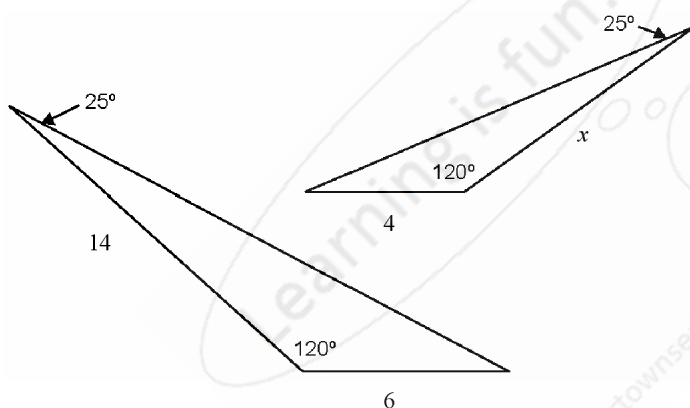


14.4

15.2

15

16



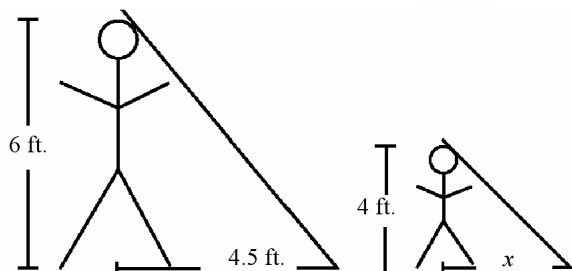
$10\frac{1}{2}$

$9\frac{1}{3}$

$10\frac{1}{3}$

12

A 6-ft adult has a shadow 4.5 ft long. How long is the shadow of a 4-ft child standing next to the adult?



2.5 ft

3 ft

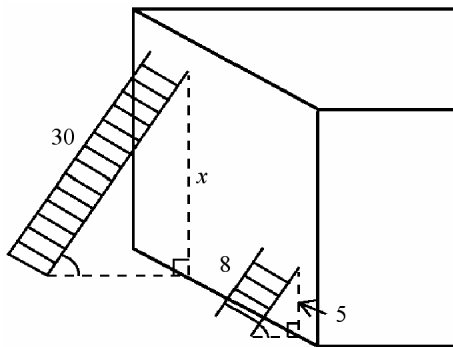
4.5 ft

3.5 ft

Name: \_\_\_\_\_

ID: A

\_\_\_\_\_ The ladders shown below are standing against the wall at the same angle. How high up the wall does the longer ladder go? (All measurements are in feet.)



27 ft

8.75 ft

18.75 ft

22.5 ft

**A scale drawing uses the scale 3 in. = 20 ft. Find the missing measure.**

\_\_\_\_\_ 39 in. = \_\_\_\_\_ ft  
160

720

260

130

\_\_\_\_\_ \_\_\_\_\_ in. =  $13\frac{1}{3}$  ft  
0.67

3.67

1.33

2

\_\_\_\_\_ The width of a picture is 12 cm. Using a color copier, you reduce the width of the picture to 4 cm. What is the scale factor of the dilation?

3

4

$\frac{1}{3}$

$\frac{1}{4}$

\_\_\_\_\_ The scale of a map is 1 in. : 85 mi. How many actual miles does 1 inch represent?  
127.5 miles      85 miles      7,225 miles      85 miles

\_\_\_\_\_ In a diagram of a landscape plan, the scale is 1 cm = 10 ft. In the diagram, the trees are 2.7 centimeters apart. How far apart should the actual trees be planted?

27 centimeters  
27 feet

2.7 feet  
270 feet

\_\_\_\_\_ In a scale drawing of the solar system, the scale is 1 mm = 500 km. For a planet with a diameter of 9000 kilometers, what should be the diameter of the drawing of the planet?

18 millimeters  
4500000 millimeters

9000 millimeters  
180 millimeters

**Scale**  
**Answer Section**

**MULTIPLE CHOICE**

- A
- B
- B
- C
- C
- D
- C
- B
- B
- A

