GRADE 12 ESSENTIAL
UNIT G: GEOMETRY AND TRIGONOMETRY
QUICK REVIEW OF SIMILAR TRIANGLES

Name:_____
Date: _____

Show Work!

~4' 9 5/8"

1. ANIMALS At the same time a 12-foot adult elephant casts a 4.8-foot shadow, a baby elephant casts a 2-foot shadow. How tall is the baby elephant?
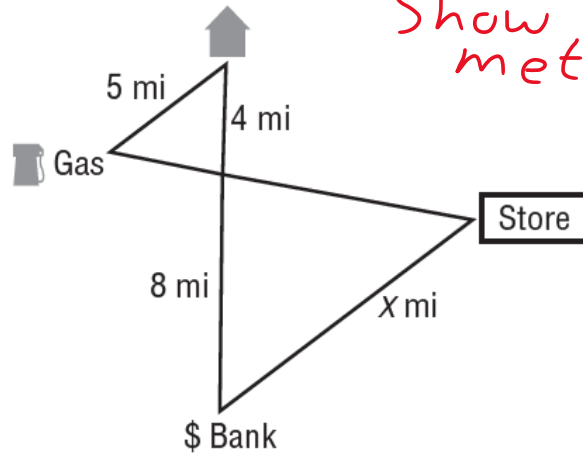
Draw own picture!

2. BUILDINGS A building casts a shadow that is 72 feet long. A garage next to the building is 27 feet high and casts a shadow that is 4.5 feet long. What is the height of the building?

3. SHADOWS A man casts a 14-foot shadow. A 4-foot child casts a 9-foot 3-inch shadow at the same time. How tall is the man in feet? In metres?
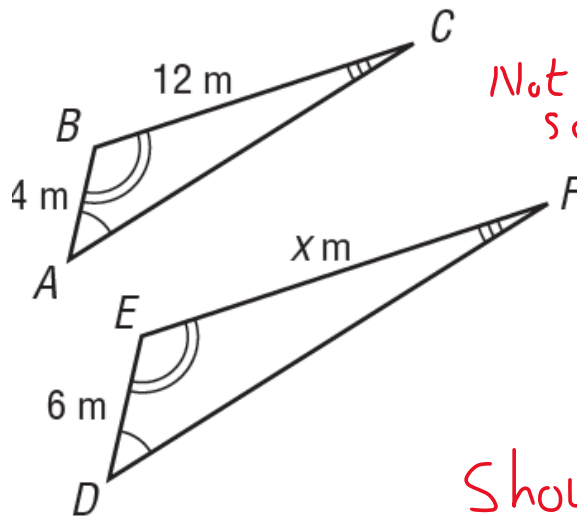
1 m ≈ 3.28 ft

4. DISTANCES The triangles at right are similar. How far is the store from the bank?

Show method

5 mi

4 mi

Gas

Store

8 mi

X mi

$ Bank

5. GEOMETRY. The triangles at right are similar. What is the value of x?

12 m

B

4 m

C

Not to scale!

F

X m

A

E

6 m

D

Show work!

6. DISTANCES The triangles are similar. What is the distance between the skate park and the movie theater?

52.5 yd

12 yd Movie Theater

Skate Park

15 yd