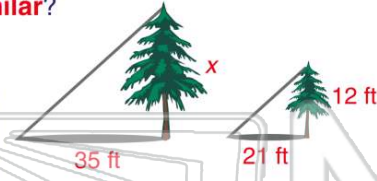




Name _____ Class _____ Date _____

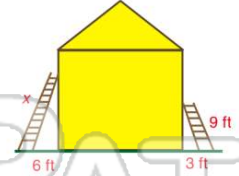
1 What is the **height** of the **larger** tree shown in the figure if the triangles made by the trees and the shadows are **similar**?

- A 7 ft
- B 20 ft
- C 30 ft
- D 61 ft



2 What is the **height** of the **longer** ladder as shown if the triangles made by the ladders, house and ground are **similar**?

- A 4.5 ft
- B 9 ft
- C 12 ft
- D 18 ft



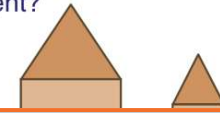
3 Two kites are shown. If the triangles made with the kite strings, the height of kites, and the ground are **similar**, how far off the ground is the **higher** kite?

- A 9 ft
- B 12 ft



4 Two tents are shown. If the rectangles made with the ground and tent poles are **similar**, what is the length of the poles on the **larger** tent?

- A 35 ft
- B 32 ft



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PREVIEW

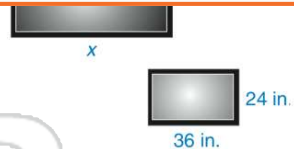
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- A 9 ft
- B $11\frac{1}{2}$ ft
- C 22 ft
- D 36 ft



- A 19 in.
- B 31 in.
- C 40 in.
- D 42 in.



9 A map has a **scale** of **1 inch = 6.5 miles**. If Kym measures the distance between two cities to be $8\frac{1}{2}$ in., how many miles apart are they?

- A 6.5 miles
- B 8.5 miles
- C 55.25 miles
- D 56.25 miles

10 Jordan measures the distance from Buffalo to Albany to be **220 miles**. The **scale** on the map is $\frac{1}{2}$ in. = 5 miles. How far did he measure with his ruler?

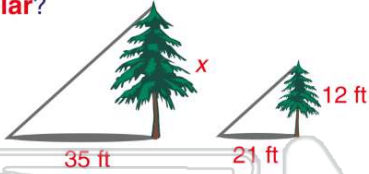
- A 44 in.
- B 22 in.
- C 20 in.
- D 11 in.



ANSWER KEY

What is the **height** of the **larger** tree shown in the figure if the triangles made by the trees and the shadows are **similar**?

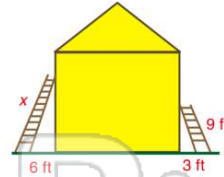
- A 7 ft
- B 20 ft
- C 30 ft
- D 61 ft



(b)

What is the **height** of the **longer** ladder as shown if the triangles made by the ladders, house and ground are **similar**?

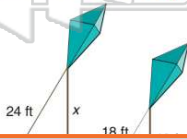
- A 4.5 ft
- B 9 ft
- C 12 ft
- D 18 ft



(d)

Two kites are shown. If the triangles made with the kite strings, the height of kites, and the ground are **similar**, how far off the ground is the **higher** kite?

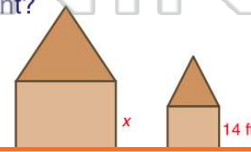
- A 9 ft
- B 12 ft
- C 16 ft
- D 24 ft



(c)

Two tents are shown. If the rectangles made with the ground and tent poles are **similar**, what is the length of the poles on the **larger** tent?

- A 35 ft
- B 32 ft
- C 6 ft



(a)



PREVIEW

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- B $11\frac{1}{2}$ ft
- D 36 ft



- B 31 in.
- C 40 in.
- D 42 in.



A map has a **scale** of **1 inch = 6.5 miles**. If Kym measures the distance between two cities to be $8\frac{1}{2}$ in., how many miles apart are they?

- A 6.5 miles
- B 8.5 miles
- C 55.25 miles
- D 56.25 miles

(c)

Jordan measures the distance from Buffalo to Albany to be **220 miles**. The **scale** on the map is $\frac{1}{2}$ in. = 5 miles. How far did he measure with his ruler?

- A 44 in.
- B 22 in.
- C 20 in.
- D 11 in.

(b)