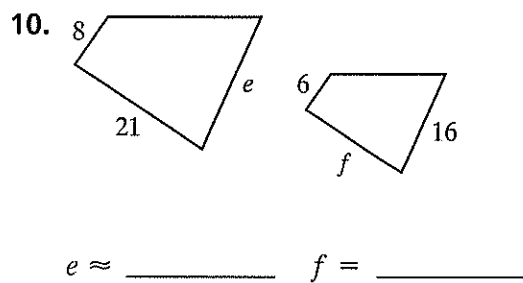
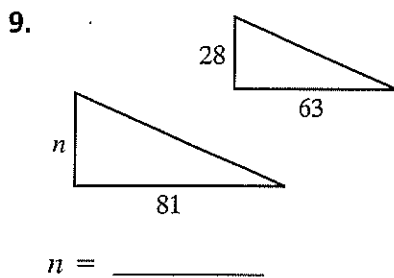
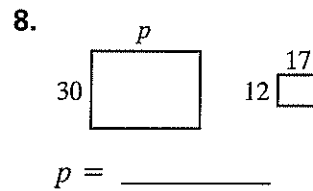
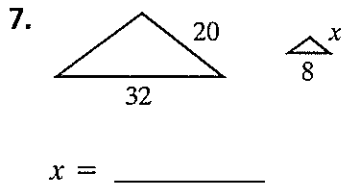


Practice 6-3 Similar Figures and Scale Drawings

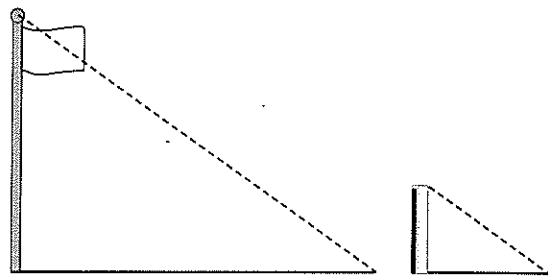
The scale of a map is $\frac{1}{2}$ in. : 8 mi. Find the actual distance for each map distance.

- | | | |
|--------------------|-------------------|--------------------------------|
| 1. 2 in.
_____ | 2. 5 in.
_____ | 3. $3\frac{1}{2}$ in.
_____ |
| 4. 10 in.
_____ | 5. 8 in.
_____ | 6. $7\frac{1}{4}$ in.
_____ |

Each pair of figures is similar. Find the missing length. Round to the nearest tenth where necessary.



11. A meter stick casts a shadow 1.4 m long at the same time a flagpole casts a shadow 7.7 m long. The triangle formed by the meterstick and its shadow is similar to the triangle formed by the flagpole and its shadow. How tall is the flagpole?



A scale drawing has a scale of $\frac{1}{4}$ in. : 6 ft. Find the length on the drawing for each actual length.

- | | | |
|--------------------|--------------------|---------------------|
| 12. 18 ft
_____ | 13. 66 ft
_____ | 14. 204 ft
_____ |
|--------------------|--------------------|---------------------|