

Determine if the ratios form a proportion. Show proof.

1. $\frac{12}{16} = \frac{30}{40}$

2. $\frac{45}{24} = \frac{75}{40}$

3. $\frac{2}{14} = \frac{20}{35}$

Solve using mental math.

4. $\frac{n}{14} = \frac{20}{35}$

5. $\frac{9}{6} = \frac{21}{n}$

Solve using cross multiplication.

6. $\frac{u}{3} = \frac{10}{5}$

7. $\frac{14}{6} = \frac{d}{15}$

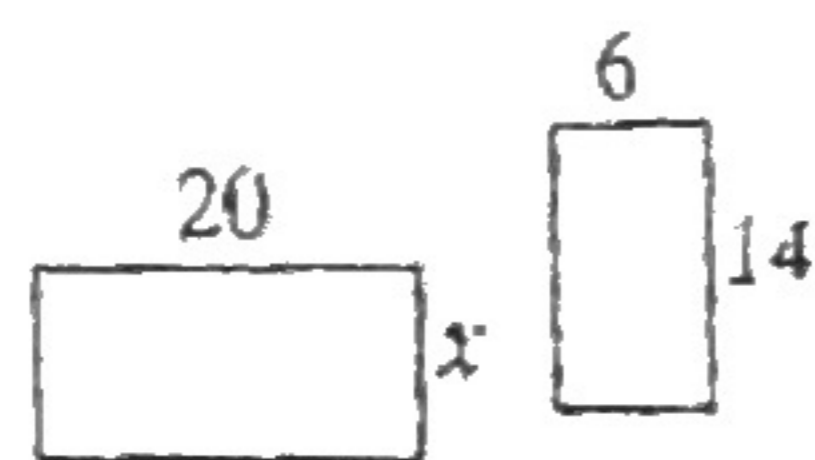
8. Mandy runs 4 km in 18 min. She plans to run a 15 km race. How long will it take her to complete the race? Set up a proportion.

9. Eleanor can complete two skirts in 15 days. How long will it take her to complete eight skirts? Set up a proportion.

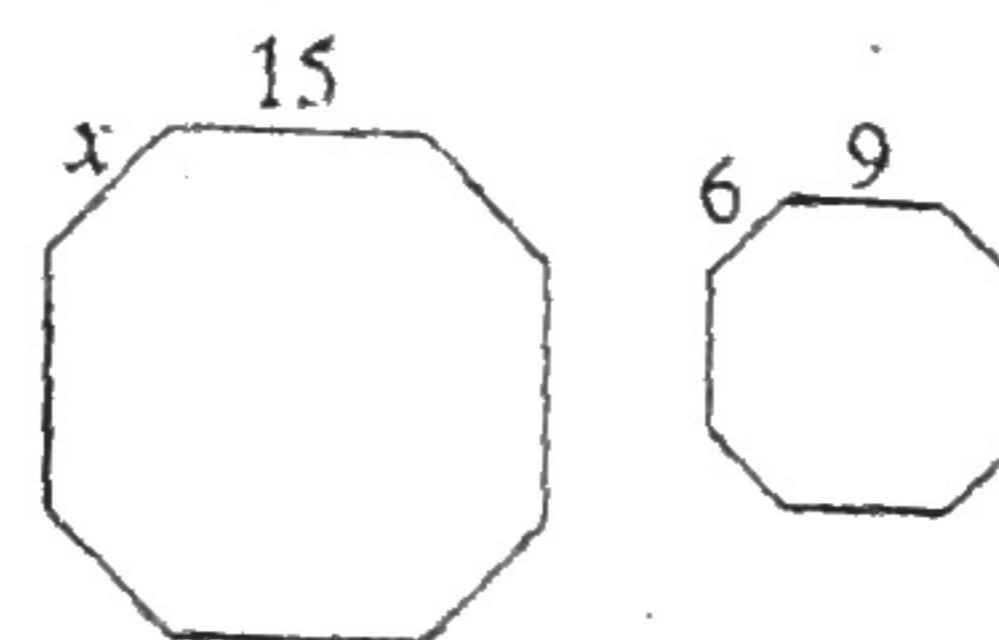
10. On a sunny day, if a 36 inch yardstick casts a 21 inch shadow, how tall is a building whose shadow is 168 feet? Sketch a picture and set up a proportion.

The pairs of figures below are similar. Find the value of the variable. Set up a proportion.

11.



12.

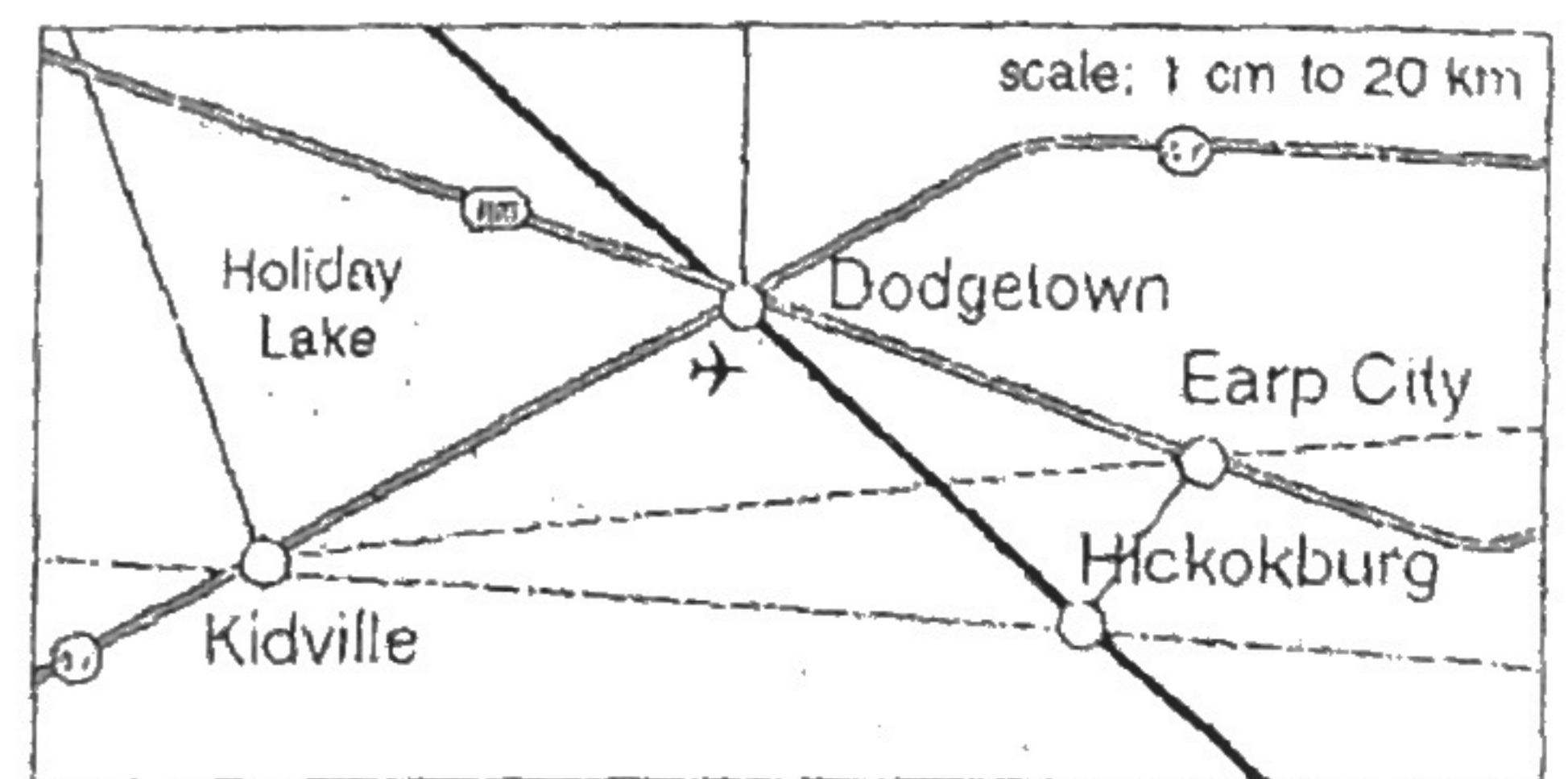


13. The scale of a map is 2 cm : 21 km. Find the actual distance if the distance on the map is 3.6 cm. Set up a proportion.

14. A scale drawing has a scale of 4 in. : 12 ft. Find the length of the drawing for the actual length of 18 ft. Set up a proportion.

Use a cm ruler to find the approximate distance between the towns. Set up a proportion.

15. Hickokburg to Kidville



16. Dodgetown to Earp City