

Worksheet 5 - Scale, Maps and Zooming Problems

Answer each question and round your answer to the nearest whole number.

- 1) A model submarine has a scale of 2 cm : 4 m.
If the model submarine is 10 cm long, then how long is the real submarine?
- 2) A model igloo is 15 in wide. If it was built with a scale of 3 in : 2 ft, then how wide is the real igloo?
- 3) A particular car is 14 ft long. A model of it was built with a scale of 1 in : 2 ft. How long is the model?
- 4) A model satellite is 6 in wide. If it was built with a scale of 3 in : 9 ft, then how wide is the real satellite?

Answer each question and round your answer to the nearest tenth.

- 5) A model statue is 3 in wide. If it was built with a scale of 1 in : 3.3 ft, then how wide is the real statue?
- 6) A model rocket has a scale of 2.5 cm : 7.3 m.
If the model rocket is 4 cm tall, then how tall is the real rocket?

Answer each question and round your answer to the nearest whole number.

- 7) Find the distance between Salem and Midway on a map with a scale of 3 in : 17 mi if they are actually 51 mi apart.
- 8) A map has a scale of 2 cm : 19 km. If Victoria and Abbots Rise are 57 km apart, then they are how far apart on the map?

9) Victoria and Santa Cruz are 10 in apart on a map that has a scale of 5 in : 11 mi. How far apart are the real cities?

10) A map has a scale of 4 in : 12 mi. If Yorkshire and Clayton are 8 in apart on the map, then how far apart are the real cities?

Answer each question and round your answer to the nearest tenth.

11) Franklin and Rivertown are 2.4 in apart on a map that has a scale of 1.4 in : 16.6 mi. How far apart are the real cities?

12) A map has a scale of 1.7 cm : 13.9 km. If Brisbane and Clinton are 25.3 km apart, then they are how far apart on the map?

Answer each question and round your answer to the nearest whole number.

13) A triangle is 2 in wide and 1 in tall. If it is enlarged to a height of 4 in, then how wide will it be?

14) Jenny enlarged the size of a photo to a width of 20 in. What is the new height if it was originally 1 in tall and 4 in wide?

15) Julia reduced the size of a painting to a height of 3 in. What is the new width if it was originally 20 in wide and 15 in tall?

16) A photo is 2 in wide and 4 in tall. If it is reduced to a height of 2 in, then how wide will it be?

Answer each question. Round your answer to the nearest tenth. Round dollar amounts to the nearest cent.

17) A triangle is 10.8 in tall and 7.2 in wide. If it is reduced to a width of 2.4 in, then how tall will it be?

18) A rectangle is 2.1 in wide and 3.6 in tall. If it is enlarged to a height of 10.8 in, then how wide will it be?