

Worksheet 5 - Scale Models, Maps and Zooming

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

- 1) A particular submarine is 14 ft long. A model of it was built with a scale of 3 in : 2 ft. How long is the model?
- 2) A model rocket has a scale of 2 in : 3 ft. If the model rocket is 8 in tall, then how tall is the real rocket?
- 3) A particular house is 12 m tall. A model of it was built with a scale of 2 cm : 1 m. How tall is the model?
- 4) A model igloo has a scale of 5 in : 4 ft. If the model igloo is 20 in wide, then how wide is the real igloo?
- 5) A model plane has a scale of 5 in : 2 ft. If the real plane is 10 ft tall then how tall is the model plane?
- 6) A model giraffe has a scale of 2 in : 6 ft. If the model giraffe is 6 in tall then how tall is the real giraffe?
- 7) A particular house is 20 m tall. A model of it was built with a scale of 3 cm : 5 m. How tall is the model?
- 8) A model statue has a scale of 4 in : 9 ft. If the model statue is 8 in tall then how tall is the real statue?
- 9) A map has a scale of 2 cm : 18 km. If Victoria and Franklin are 54 km apart, then they are how far apart on the map?
- 10) Find the distance between Mount Pleasant and Georgetown on a map with a scale of 2 in : 17 mi if they are actually 51 mi apart.

- 11) A map has a scale of 3 cm : 16 km. If Brisbane and Smithville are 48 km apart, then they are how far apart on the map?
- 12) Find the distance between Oak Grove and Victoria on a map with a scale of 2 cm : 16 km if they are actually 80 km apart.
- 13) A map has a scale of 2 in : 10 mi. If Brisbane and Santa Cruz are 10 in apart on the map then how far apart are the real cities?
- 14) Find the distance between Georgetown and Union if they are 9 cm apart on a map with a scale of 3 cm : 13 km.
- 15) A map has a scale of 2 cm : 17 km. If Franklin and Salem are 6 cm apart on the map then how far apart are the real cities?
- 16) Madison and Salem are 10 in apart on a map that has a scale of 2 in : 12 mi. How far apart are the real cities?
- 17) Jimmy reduced the size of a painting to a width of 4 in. What is the new height if it was originally 4 in tall and 8 in wide?
- 18) A frame is 3 in tall and 4 in wide. If it is enlarged to a height of 15 in, then how wide will it be?
- 19) A triangle is 3 in tall and 4 in wide. If it is enlarged to a height of 6 in, then how wide will it be?
- 20) Heather enlarged the size of a triangle to a width of 15 in. What is the new height if it was originally 4 in tall and 3 in wide?