
AWM10

Ch. 6.1 Worksheet#2

Assignment

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

- 11) Santa Cruz and Johnstown are 84 mi from each other. How far apart would the cities be on a map that has a scale of 1 in: 14 mi?
- 12) A map has a scale of 1 in: 16 mi. If Santa Cruz and Brisbane are 64 mi apart then they are how far apart on the map?

- 13) A map has a scale of 1 cm: 12 km. If
 Greenwood and Rivertown are 9 cm apart
 on the map then how far apart are the real
 cities?
- 14) A model house is 6 in tall. If it was built with a scale of 1 in: 3 ft then how tall is the real house?

- 15) A particular giraffe is 16 ft tall. A model of it was built with a scale of 1 in : 8 ft. How tall is the model?
- 16) A particular train is 12 ft tall. A model of it was built with a scale of 1 in : 4 ft. How tall is the model?

- 17) A 6 ft tall man standing next to a ladder casts a 3 ft shadow. If the ladder casts a shadow that is 7 ft long then how tall is it?
- 18) If a 3 ft tall car casts a 9 ft long shadow then how tall is a woman that casts a 18 ft shadow?

- 19) A statue that is 15 ft tall casts a shadow that is 5 ft long. Find the length of the shadow that a 18 ft adult giraffe casts.
- 20) If a 8 ft tall baby giraffe casts a 4 ft long shadow then how long is the shadow that a 18 ft tall statue casts?

- 21) Franklin and Clayton are 50 km from each other. How far apart would the cities be on a map that has a scale of 1 cm: 10 km?
- 22) Find the distance between Rivertown and Yorkshire on a map with a scale of 1 cm: 8 km if they are actually 72 km apart.

- 23) Rivertown and Abbots Rise are 2 in apart on a map that has a scale of 1 in: 7 mi. How far apart are the real cities?
- 24) Find the distance between Kumba and Midway if they are 5 in apart on a map with a scale of 1 in: 5 mi.

25) A model motorcycle has a scale of 1 in : 5 ft.

If the real motorcycle is 10 ft long then how long is the model motorcycle?

26. Tw m, wh	o triangles are similar. One has sides of 8 m, 5 m at are the lengths of the other two sides?	, and 6 m. If the longest side of the second triangle is 5
	pentagon has interior angles of 108°, 204°, 63°, 1 des twice as long as the original. What size will t	20°, and 45°. Rudy wants to draw a similar pentagon he angles be?
diagra	arie-Claude has a series of four nested funnels in m. If the other three funnels have top diameters ning parts for all three funnels.	her kitchen that are similar to the one shown in the of 10 cm, 8 cm, and 6 cm, find the measures of the
a)	Funnel Height: 1.	12 cm
	2.	16 cm
	3.	
b)	Stem Height: 1.	10 cm
	2.	v

3.