Name: _____ Date: _____

Scale Drawings

Grade 7 • 24 questions • Part A: use the map scale to find the real distance

1. Scale 1 cm : 20 km. Two towns are 4.5 cm apart on the map. How far apart are they really?
   Answer: _____

2. Scale 1 cm : 10 km. Two towns are 2 cm apart on the map. How far apart are they really?
   Answer: _____

3. Scale 1 cm : 2 km. Two towns are 6 cm apart on the map. How far apart are they really?
   Answer: _____

4. Scale 1 cm : 5 km. Two towns are 8 cm apart on the map. How far apart are they really?
   Answer: _____

5. Scale 1 cm : 25 km. Two towns are 9 cm apart on the map. How far apart are they really?
   Answer: _____

6. Scale 1 cm : 50 km. Two towns are 2.5 cm apart on the map. How far apart are they really?
   Answer: _____

7. Scale 1 cm : 2 km. Two towns are 4 cm apart on the map. How far apart are they really?
   Answer: _____

8. Scale 1 cm : 25 km. Two towns are 3.5 cm apart on the map. How far apart are they really?
   Answer: _____

Part B • Find the length on the drawing

9. Scale 1 inch : 2 feet. A wall is really 24 feet long. How long is it on the plan?
   Answer: _____

10. Scale 1 inch : 10 feet. A wall is really 70 feet long. How long is it on the plan?
    Answer: _____

11. Scale 1 inch : 5 feet. A wall is really 40 feet long. How long is it on the plan?
    Answer: _____

12. Scale 1 inch : 8 feet. A wall is really 48 feet long. How long is it on the plan?
    Answer: _____

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Scale Drawings

Part B continued • Part C: scale factors • Part D: area and finding the scale

13. Scale 1 cm : 2 m. A room is 13 m long. How long is it on the plan?

Answer: _____

14. Scale 1 cm : 5 m. A room is 15 m long. How long is it on the plan?

Answer: _____

Part C • Scale factors: find the new length

15. A side 5 cm long is copied with a scale factor of 5. How long is the new side?

Answer: _____

16. A side 7 cm long is copied with a scale factor of 3. How long is the new side?

Answer: _____

17. A side 10 cm long is copied with a scale factor of 2. How long is the new side?

Answer: _____

18. A side 18 cm long is copied with a scale factor of 1.5. How long is the new side?

Answer: _____

19. A side 16 cm long is copied with a scale factor of 0.5. How long is the new side?

Answer: _____

20. A side 8 cm long is copied with a scale factor of 4. How long is the new side?

Answer: _____

Part D • Area and finding the scale

21. A 3 cm by 4 cm rectangle is enlarged by a scale factor of 2. What is the new area?

Answer: _____

22. A square's sides are tripled. How many times bigger is its area?

Answer: _____

23. A 2 cm model car stands for a 6 m car. Write the scale as 1 : ?

Answer: _____

24. On a 1 : 50,000 map, how many km is 4 cm?

Answer: _____

Answer Key — Scale Drawings

1. 90 km
2. 20 km
3. 12 km
4. 40 km
5. 225 km
6. 125 km
7. 8 km
8. 87.5 km
9. 12 in
10. 7 in
11. 8 in
12. 6 in
13. 6.5 cm
14. 3 cm
15. 25 cm
16. 21 cm
17. 20 cm
18. 27 cm
19. 8 cm
20. 32 cm
21. 48 cm^2
22. 9 times
23. 1 : 300
24. 2 km