



Estimating lengths from scale drawings and photos

Mana Maths

Te reo Māori terms



tauine

scale

Open in Te Aka

roa

length

Open in Te Aka

whakatau tata

estimate

Open in Te Aka

ōwehenga

ratio

Open in Te Aka

Start Tasks



1. A model is at scale 1:10. The real object is 18 m. How many cm is the model?

2. A model is at scale 1:50. The real object is 1 m. How many cm is the model?

3. A model is at scale 1:100. The real object is 10 m. How many cm is the model?

4. A model is at scale 1:20. The real object is 10 m. How many cm is the model?

5. A model is at scale 1:25. The real object is 7 m. How many cm is the model?

6. A model is at scale 1:5. The real object is 14 m. How many cm is the model?

7. A model is at scale 1:200. The real object is 19 m. How many cm is the model?

8. A model is at scale 1:10. The real object is 20 m. How many cm is the model?

9. A model is at scale 1:50. The real object is 11 m. How many cm is the model?

Start Tasks



10. A model is at scale 1:100. The real object is 15 m. How many cm is the model?

11. A model is at scale 1:20. The real object is 15 m. How many cm is the model?

12. A model is at scale 1:25. The real object is 15 m. How many cm is the model?

13. A model is at scale 1:5. The real object is 7 m. How many cm is the model?

14. A model is at scale 1:200. The real object is 17 m. How many cm is the model?

15. A model is at scale 1:10. The real object is 16 m. How many cm is the model?

16. A model is at scale 1:50. The real object is 6 m. How many cm is the model?

17. A model is at scale 1:100. The real object is 3 m. How many cm is the model?

18. A model is at scale 1:20. The real object is 10 m. How many cm is the model?

Start Tasks



19. A model is at scale 1:25. The real object is 17 m. How many cm is the model?

20. A model is at scale 1:5. The real object is 20 m. How many cm is the model?

21. A model is at scale 1:200. The real object is 11 m. How many cm is the model?

22. A model is at scale 1:10. The real object is 3 m. How many cm is the model?

23. A model is at scale 1:50. The real object is 8 m. How many cm is the model?

24. A model is at scale 1:100. The real object is 10 m. How many cm is the model?

25. A model is at scale 1:20. The real object is 8 m. How many cm is the model?

26. A model is at scale 1:25. The real object is 7 m. How many cm is the model?

27. A model is at scale 1:5. The real object is 5 m. How many cm is the model?

Build Tasks



1. A drawing is 2 cm.
Scale 1:25. Real length
in metres?

2. A drawing is 9 cm.
Scale 1:80. Real length
in metres?

3. A drawing is 4 cm.
Scale 1:78. Real length
in metres?

4. A drawing is 15 cm.
Scale 1:100. Real
length in metres?

5. A drawing is 20 cm.
Scale 1:44. Real length
in metres?

6. A drawing is 14 cm.
Scale 1:83. Real length
in metres?

7. A drawing is 14 cm.
Scale 1:51. Real length
in metres?

8. A drawing is 6 cm.
Scale 1:20. Real length
in metres?

9. A drawing is 5 cm.
Scale 1:74. Real length
in metres?

Build Tasks



10. A drawing is 9 cm.
Scale 1:42. Real length
in metres?

11. A drawing is 18 cm.
Scale 1:79. Real length
in metres?

12. A drawing is 3 cm.
Scale 1:91. Real length
in metres?

13. A drawing is 9 cm.
Scale 1:35. Real length
in metres?

14. A drawing is 16 cm.
Scale 1:37. Real length
in metres?

15. A drawing is 16 cm.
Scale 1:87. Real length
in metres?

16. A drawing is 19 cm.
Scale 1:96. Real length
in metres?

17. A drawing is 12 cm.
Scale 1:76. Real length
in metres?

18. A drawing is 18 cm.
Scale 1:74. Real length
in metres?

Build Tasks



19. A drawing is 19 cm.
Scale 1:77. Real length
in metres?

20. A drawing is 7 cm.
Scale 1:80. Real length
in metres?

21. A drawing is 16 cm.
Scale 1:53. Real length
in metres?

22. A drawing is 9 cm.
Scale 1:55. Real length
in metres?

23. A drawing is 18 cm.
Scale 1:82. Real length
in metres?

24. A drawing is 9 cm.
Scale 1:55. Real length
in metres?

25. A drawing is 16 cm.
Scale 1:29. Real length
in metres?

26. A drawing is 11 cm.
Scale 1:50. Real length
in metres?

27. A drawing is 10 cm.
Scale 1:62. Real length
in metres?

Push Tasks



1. A map has scale 1:326. Distance on map is 6 cm. Real distance in km?

2. A map has scale 1:120. Distance on map is 2 cm. Real distance in km?

3. A map has scale 1:168. Distance on map is 3 cm. Real distance in km?

4. A map has scale 1:405. Distance on map is 7 cm. Real distance in km?

5. A map has scale 1:411. Distance on map is 3 cm. Real distance in km?

6. A map has scale 1:82. Distance on map is 4 cm. Real distance in km?

7. A map has scale 1:258. Distance on map is 7 cm. Real distance in km?

8. A map has scale 1:327. Distance on map is 6 cm. Real distance in km?

9. A map has scale 1:262. Distance on map is 8 cm. Real distance in km?

Push Tasks



10. A map has scale 1:155. Distance on map is 1 cm. Real distance in km?

11. A map has scale 1:265. Distance on map is 14 cm. Real distance in km?

12. A map has scale 1:444. Distance on map is 7 cm. Real distance in km?

13. A map has scale 1:406. Distance on map is 10 cm. Real distance in km?

14. A map has scale 1:488. Distance on map is 1 cm. Real distance in km?

15. A map has scale 1:441. Distance on map is 15 cm. Real distance in km?

16. A map has scale 1:244. Distance on map is 10 cm. Real distance in km?

17. A map has scale 1:53. Distance on map is 8 cm. Real distance in km?

18. A map has scale 1:202. Distance on map is 6 cm. Real distance in km?

Push Tasks



19. A map has scale 1:249. Distance on map is 13 cm. Real distance in km?

20. A map has scale 1:477. Distance on map is 14 cm. Real distance in km?

21. A map has scale 1:325. Distance on map is 7 cm. Real distance in km?

22. A map has scale 1:426. Distance on map is 12 cm. Real distance in km?

23. A map has scale 1:459. Distance on map is 9 cm. Real distance in km?

24. A map has scale 1:162. Distance on map is 10 cm. Real distance in km?

25. A map has scale 1:162. Distance on map is 8 cm. Real distance in km?

26. A map has scale 1:273. Distance on map is 5 cm. Real distance in km?

27. A map has scale 1:64. Distance on map is 8 cm. Real distance in km?