THIRD SPACE LEARNING

Scale Drawing Worksheet

Geometry

Grades 6 to 8

Scale Drawing Worksheet | Grades 6 to 8

Name: ....

Date: ....

1 A map has a scale of 1 cm : 5 km. What is the actual distance represented by 8 cm on the map?

Answer

2 A scale model of a bridge is built using a scale of 1 cm : 50 m. If the model length is 15 cm, what is the actual length of the bridge?

Answer

3 A city park is represented on a plan with a scale of 2 cm : 100 m. If two trees are 6 cm apart on the plan, what is the real distance between them?

Answer

4 On a hiking map, the scale is 1 cm : 0.5 km. If the distance between two campsites on the map is 14 cm, what is the actual distance?

Answer

5 A building floor plan is drawn with a scale of 3 cm : 10 m. A wall is 18 cm long on the plan. How long is the actual wall?

Answer

Scale Drawing Worksheet | Grades 6 to 8

6 A model of a ship is built at a scale of 1 cm : 30 m. If the actual ship is 360 m high, what is the height of the model ship?

Answer

---

7 A world atlas uses a scale of 1 cm : 200 km. Calculate the real distance represented by 7.5 cm on the atlas.

Answer

---

8 On a town map with a scale of 2 cm : 1 km, the distance between a library and a school is shown as 10 cm. What is the actual distance?

Answer

---

9 A scale drawing of a room uses a scale of 1 cm : 0.3 m. If the actual room width is 7.5 m, what is the width on the scale drawing?
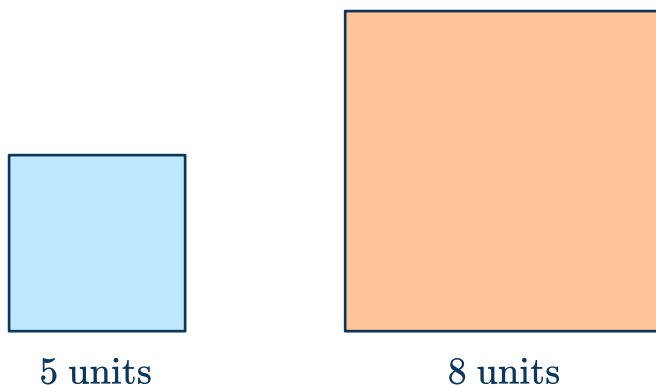
Answer

---

10 An aquarium model is created with a scale of 1 cm : 15 cm. If the actual aquarium is 1.2 m tall, how tall is the model?

Answer

---

11 For a school project, Jillian drew the two squares below. What is the ratio between the squares?

5 units

8 units

Answer

12 Two triangles are similar with a ratio of 3 to 5. If the perimeter of the smaller triangle is 15 cm, what is the perimeter of the larger triangle?

Answer

13 The two rectangles below are similar.
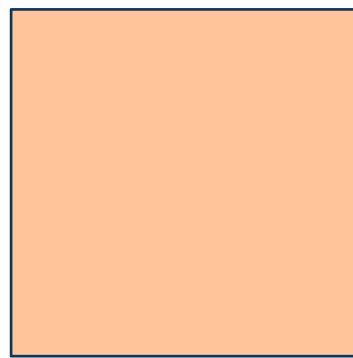A) Find the missing dimension of rectangle A.

Answer

B) Find the perimter of rectangle A.

Answer

Rectangle A 4cm

Rectangle B 8cm

20cm

14 Find the ratio of the areas of the two squares below.

12cm   7cm

Answer

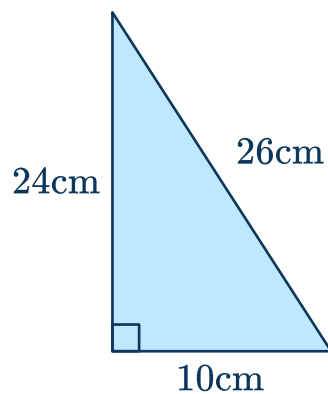**15** The triangles below are scaled drawings.

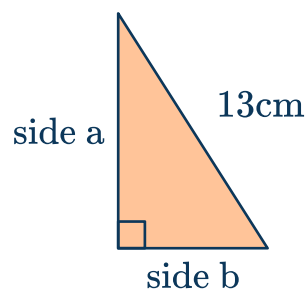A) Find the lengths the missing sides of Triangle B..

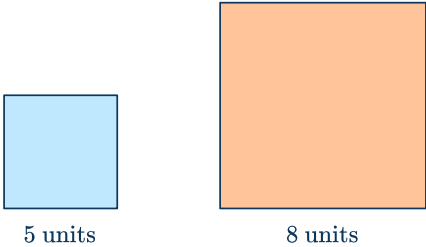*Answer*

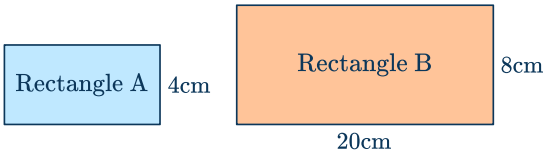B) Find the area of Triangle B.
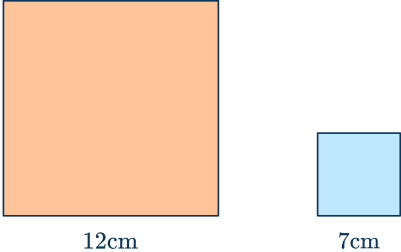
Answer

Triangle A   Triangle B

24cm   26cm

10cm

side a   13cm

side b
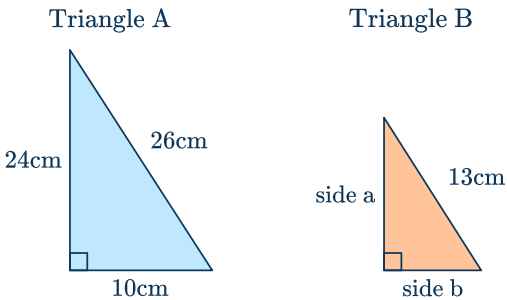
Answers

Question number	Question	Answers	Standard
1	A map has a scale of 1 cm : 5 km. What is the actual distance represented by 8 cm on the map?	40 km	7.G.A.1
2	A scale model of a bridge is built using a scale of 1 cm : 50 m. If the model length is 15 cm, what is the actual length of the bridge?	750 m	7.G.A.1
3	A city park is represented on a plan with a scale of 2 cm : 100 m. If two trees are 6 cm apart on the plan, what is the real distance between them?	300 m	7.G.A.1
4	On a hiking map, the scale is 1 cm : 0.5 km. If the distance between two campsites on the map is 14 cm, what is the actual distance?	7 km	7.G.A.1
5	A building floor plan is drawn with a scale of 3 cm : 10 m. A wall is 18 cm long on the plan. How long is the actual wall?	60 m	7.G.A.1
6	A model of a ship is built at a scale of 1 cm : 30 m. If the actual ship is 360 m high, what is the height of the model ship?	12 cm	7.G.A.1
7	A world atlas uses a scale of 1 cm : 200 km. Calculate the real distance represented by 7.5 cm on the atlas.	1,500 km	7.G.A.1

Scale Drawing Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
8	On a town map with a scale of 2 cm : 1 km, the distance between a library and a school is shown as 10 cm. What is the actual distance?	5 km	7.G.A.1
9	A scale drawing of a room uses a scale of 1 cm : 0.3 m. If the actual room width is 7.5 m, what is the width on the scale drawing?	25 cm	7.G.A.1
10	An aquarium model is created with a scale of 1 cm : 15 cm. If the actual aquarium is 1.2 m tall, how tall is the model?	8 cm	7.G.A.1
11	For a school project, Jillian drew the two squares below. What is the ratio between the squares? 5 units 8 units	5 to 8 or $\frac{5}{8}$	7.G.A.1
12	Two triangles are similar with a ratio of 3 to 5. If the perimeter of the smaller triangle is 15 cm, what is the perimeter of the larger triangle?	25 cm	7.G.A.1
13	The two rectangles below are similar. A) Find the missing dimension of rectangle A.. B) Find the perimter of rectangle A. Rectangle A 4cm Rectangle B 8cm 20cm	A) 10 cm B) 28 cm	7.G.A.1

Scale Drawing Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
14	Find the ratio of the areas of the two squares below. 12cm 7cm	144 to 49 or $\frac{144}{49}$	7.G.A.1
15	The triangles below are scaled drawings. A) Find the lengths the missing sides of Triangle B.. B) Find the area of Triangle B. Triangle A Triangle B 24cm 26cm 10cm side a 13cm side b	A) Side a = 12 cm Side b = 5 cm B) Area of Triangle B = 30 cm²	7.G.A.1

Do you have a group of students who need a boost in math?

Each student could receive a personalized lesson every week from our specialist one-on-one math tutors.

✓ Differentiated instruction for each student

✓ Aligned to your state's standard

✓ Scaffolded learning to close gaps

Speak to us

💻 thirdspacelearning.com/us/

📞 (929) 298-4593

✉️ hello@thirdspacelearning.com

THIRD SPACE LEARNING