

*Name:* \_\_\_\_\_

1. The scale on a map is 1:1000.

(a) Find the actual distances (in *metres*) of the following lengths that were measured off the map.

- (i) 8 cm    (ii) 46 mm    (iii) 13.5 cm

(b) Find the lengths on the map (in *mm*) of the following distances.

- (i) 25 m    (ii) 8 m    (iii) 115 m

2. The scale on a map is 1:500 000.

(a) Find the actual distances (in *km*) of the following lengths on the map.

- (i) 4 cm    (ii) 56 mm    (iii) 14.5 cm

(b) Find the lengths on the map (in *mm*) of the following distances.

- (i) 10 km    (ii) 25 km    (iii) 34 km

3. The model of a train was 35 cm long. If the scale of the model was 1:200, find the actual length of the train (in *m*).

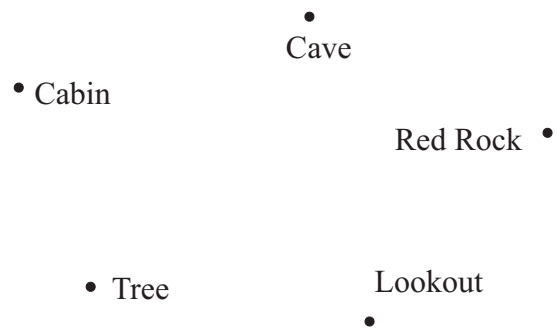
4. An architect built a model of a bridge she designed. The model was 80 cm long and the actual bridge was 400 m long. What is the scale of the model?

5. A map is shown below.

The scale of the map is 1:200 000.

(a) Measure the distance between the following features and use the scale to calculate the actual distances in *kilometres*.

Features	Actual Distance (km)
Cabin and Cave	
Tree and Red Rock	
Lookout and Cave	



(b) Someone left the cabin and visited the cave, red rock, lookout, tree and then returned to the cabin. They walked in straight lines between the all features. What is the total distance (in km) that they have walked?

6. Find the dimensions of a soccer field and use an appropriate scale to draw the field below. What scale have you chosen?