Form 3

Chapter 4: Scale Drawings

TEACHER'S NAME:

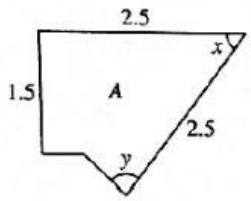
NAME:

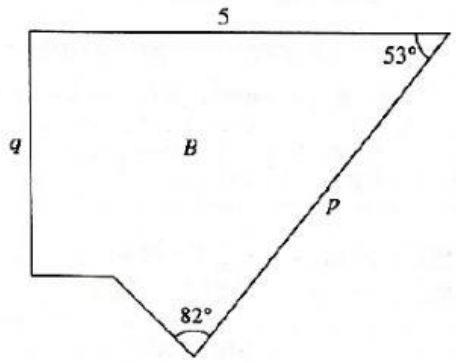
CLASS:

4.1 SCLAE DRAWINGS

Write answers in the spaces provided.

1. **Mark / for the correct statement and X for the incorrect statements.**





(a) Polygon B is larger than polygon A. ( )

(b) Polygon B has angles with the same measures as polygon A. ( )

(c) Polygon B has the same number of sides as polygon A. ( )

(d) Polygon B has the same perimeter as polygon A. ( )

(c) Polygon B has the same number of angles as polygon A. ( )

2. **Based on the diagram, complete the following.**

(a) Angle x = _____ (Write numbers only)

(b) Ratio of sides = _____ (Write numbers only)

(c) Length of q = _____ (Write numbers only)

3. A scale on drawing is $1:\frac{1}{2}$.

It means the scale drawing is ..... than the object.

Larger / Smaller

(Choose 1 answer)

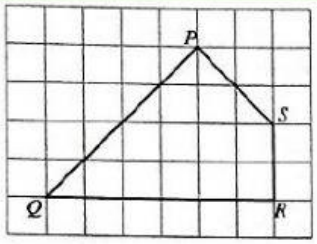
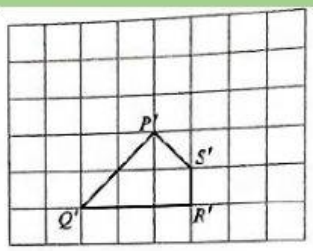
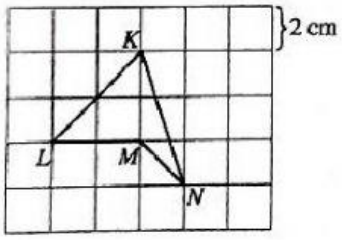
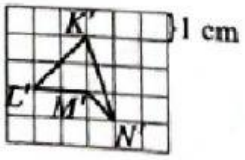
4. A scale on drawing is $1cm:10km$

It means the scale drawing is ..... than the object.

Larger / Smaller

(Choose 1 answer)

5. Determine the scale of the following in the form of 1 : *n*.

Object	Scale Drawing	Scale (1 : n)
		(Write the ratio. Example 1 : 5)
		(Write the ratio. Example 1 : 5)

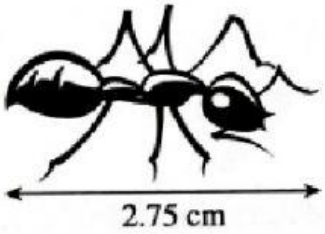
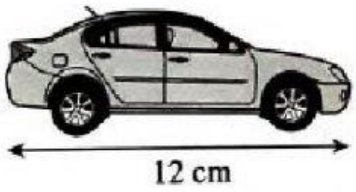
6. a) The actual distance between a library and a post office is 180 m. On a map, the distance between the two buildings is 18 cm. Calculate the scale used.

_____ (Write the ratio. Example 1 : 100)

b) The length of a swimming pool in a scale drawing is 5 cm. The actual length of the swimming pool is 25 m. Calculate the scale used.

_____ (Write the ratio. Example 1 : 100)

7. Calculate the actual length.

Measurement of scale drawing	Scale	Actual Length
	$1 : \frac{1}{5}$	..... cm (Write number only)
	$1 : 40$	..... cm (Write number only)

8. On the plan of a room drawn using a scale of 1 : 150, the length of the room is 6 cm. Calculate the actual length , in m , of the room.

m

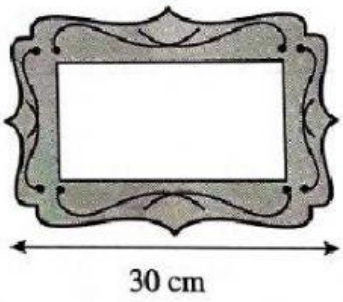
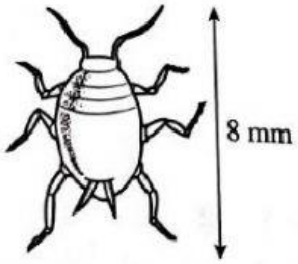
_____ (Write number only)

9. A map is drawn to a scale of 1 cm to 15 km. Calculate the actual distance , in km , between two towns if the distance on the map is 4 cm.

km

_____ (Write number only)

10. Determine the measurement of the scale drawings.

Measurement of the object	Scale	Length of the scale drawing
	$1:6$	..... cm (Write number only)
	$1:\frac{1}{5}$	..... mm (T Write number only)