

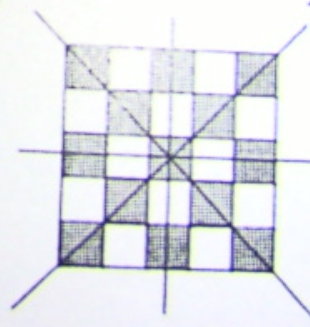
MULTIPLE CHOICE

- 1. ANS: C
- 2. ANS: B
- 3. ANS: C
- 4. ANS: B
- 5. ANS: C
- 6. ANS: B
- 7. ANS: D
- 8. ANS: B
- 9. ANS: D
- 10. ANS: D
- 11. ANS: C
- 12. ANS: C
- 13. ANS: B, C
- 14. ANS: B
- 15. ANS: D
- 16. ANS: D
- 17. ANS: A

SHORT ANSWER

- 18. The scale factor is 3.5.
- 19. $x = 20.4$
 $y^\circ = 31^\circ$
- 20. $y = 6$
 $x^\circ = 66^\circ$
- 21. $BD = 6$
- 22. $CD = 4.5$
 $CE = 2.5$
- 23. 8.1 m

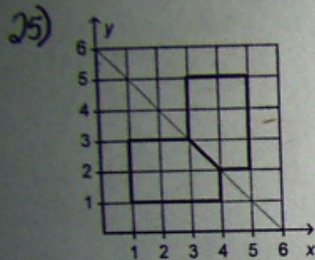
24)



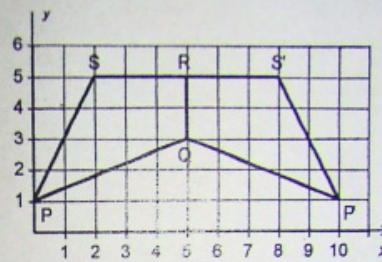
26. Qua
Qua
Qua

Similarity and Transformations

is 3.5.



27.



The shape PSS'P'Q has coordinates: P(0,1), S(2,5)

S'(8, 5), P'(10, 1), Q(5, 3)

26. Quadrilateral B is the reflection image of quadrilateral A in the oblique line through (0, 8) and (8, 0)
 Quadrilateral C is the reflection image of quadrilateral A in the vertical line through 4 on the x-axis
 Quadrilateral D is the reflection image of quadrilateral A in the oblique line through (0, 0) and (8, 1)

28. Rotational symmetry of order 2 about the centre; no line symmetry
 29. R

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29. R

31. a)

Solve for x.

$$\frac{x}{18} = \frac{54}{36}$$

$$18 \times \frac{x}{18} = 18 \times \frac{54}{36}$$

$$x = \frac{18 \times 54}{36}$$

$$x = 27$$

So, $x = 27$ cm.

Solve for y.

$$\frac{y}{18} = \frac{90}{36}$$

$$18 \times \frac{y}{18} = 18 \times \frac{90}{36}$$

$$y = \frac{18 \times 90}{36}$$

$$y = 45$$

So, $y = 45$ cm.

31) b) Let z represent the length.

$$\frac{z}{36} = \frac{57.6}{18}$$

$$36 \times \frac{z}{36} = 36 \times \frac{57.6}{18}$$

$$z = \frac{36 \times 57.6}{18}$$

$$z = 115.2$$

The length is 115.2 cm.

eral A in the vertical line through 4 on the x-axis
eral A in the oblique line through (0, 0) and (8, 1)

he centre; no line symmetry

31)b) Let z represent the length.

$$\frac{z}{36} = \frac{57.6}{18}$$
$$36 \times \frac{z}{36} = 36 \times \frac{57.6}{18}$$
$$z = \frac{36 \times 57.6}{18}$$
$$z = 115.2$$

The length is 115.2 cm.

