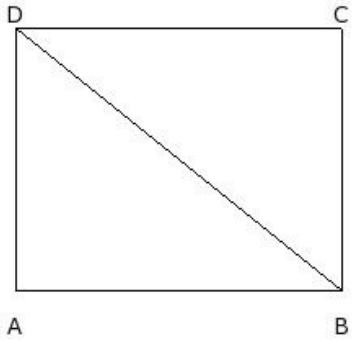
EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Areas

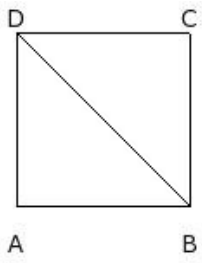
Grade : SSC Grade IX

1. If the breadth and diagonal of a rectangle are 16.00 cm and 25.61 cm respectively, the area of the rectangle =



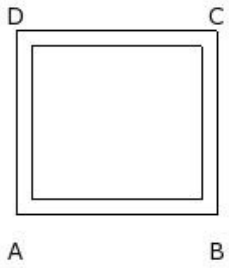
(i) 303.00 sq.cm (ii) 320.00 sq.cm (iii) 328.00 sq.cm (iv) 294.00 sq.cm (v) 336.00 sq.cm

2. If the length of the diagonal of a square is 14.14 cm, the area of the square =



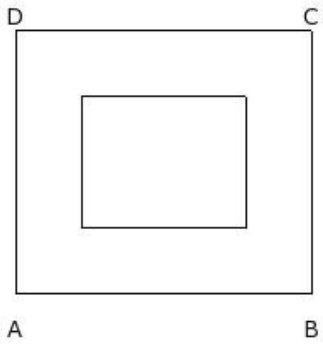
(i) 100.00 sq.cm (ii) 105.00 sq.cm (iii) 87.00 sq.cm (iv) 98.00 sq.cm (v) 114.00 sq.cm

3. If the outer length, inner breadth and area of the outer rectangle of a rectangular path are 11.80 cm, 9.00 cm and 127.44 sq.cm respectively, the area of the inner rectangle of the rectangular path =



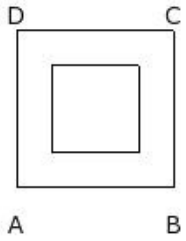
(i) 90.00 sq.cm (ii) 93.00 sq.cm (iii) 95.00 sq.cm (iv) 87.00 sq.cm (v) 85.00 sq.cm

4. If the inner length, outer breadth and area of the inner rectangle of a rectangular path are 10.00 cm, 16.00 cm and 80.00 sq.cm respectively, the area of the rectangular path =



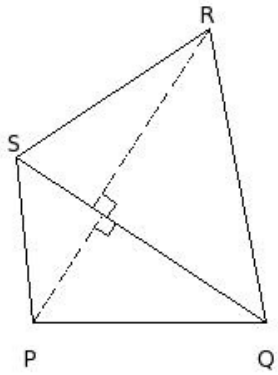
(i) 192.00 sq.cm (ii) 208.00 sq.cm (iii) 190.00 sq.cm (iv) 212.00 sq.cm (v) 233.00 sq.cm

5. If the width of a square path is 2.00 cm and outer side is 9.00 cm, the area of the inner square =



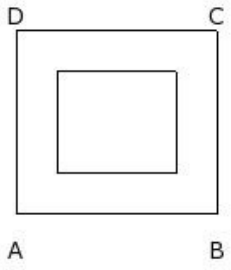
(i) 22.00 sq.cm (ii) 28.00 sq.cm (iii) 30.00 sq.cm (iv) 20.00 sq.cm (v) 25.00 sq.cm

6. In quadrilateral PQRS, if diagonal QS = 18.00 cm, perpendiculars from the vertices P and R to the diagonal QS are 7.74 cm and 12.90 cm respectively, then area of the quadrilateral =



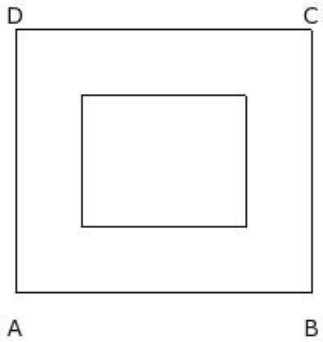
(i) 177.76 sq.cm (ii) 168.76 sq.cm (iii) 200.76 sq.cm (iv) 185.76 sq.cm (v) 191.76 sq.cm

7. If the inner length, outer breadth and area of the outer rectangle of a rectangular path are 7.00 cm, 10.80 cm and 127.44 sq.cm respectively, the area of the inner rectangle of the rectangular path =



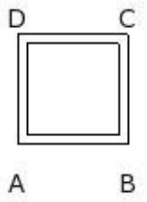
(i) 47.00 sq.cm (ii) 37.00 sq.cm (iii) 39.00 sq.cm (iv) 45.00 sq.cm (v) 42.00 sq.cm

8. If the outer length, inner breadth and area of the outer rectangle of a rectangular path are 18.00 cm, 8.00 cm and 288.00 sq.cm respectively, the area of the rectangular path =



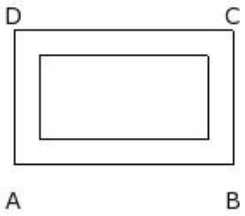
(i) 208.00 sq.cm (ii) 193.00 sq.cm (iii) 202.00 sq.cm (iv) 220.00 sq.cm (v) 212.00 sq.cm

9. If the outer and inner sides of a square path are 6.00 cm and 5.00 cm respectively, the area of the inner square =



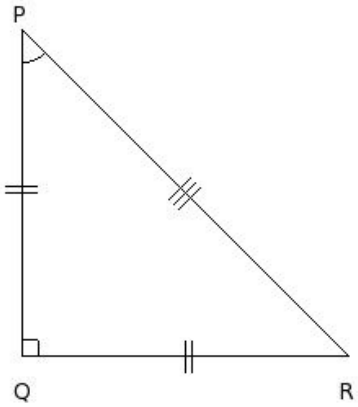
(i) 22.00 sq.cm (ii) 25.00 sq.cm (iii) 20.00 sq.cm (iv) 28.00 sq.cm (v) 30.00 sq.cm

10. If the inner length, inner breadth and width of a rectangular path are 10.00 cm, 5.00 cm and 1.50 cm respectively, the area of the outer rectangle of the rectangular path =



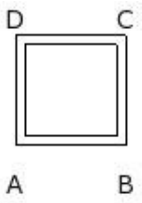
(i) 91.00 sq.cm (ii) 104.00 sq.cm (iii) 97.00 sq.cm (iv) 116.00 sq.cm (v) 119.00 sq.cm

11. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 20 cm, then area of the triangle =



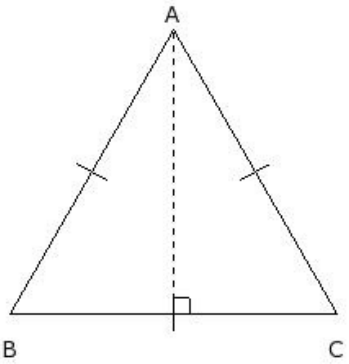
(i) 188.00 sq.cm (ii) 224.00 sq.cm (iii) 216.00 sq.cm (iv) 175.00 sq.cm (v) 200.00 sq.cm

12. If the outer side of a square path is 6.00 cm and area of the square path is 11.00 sq.cm, the area of the inner square =



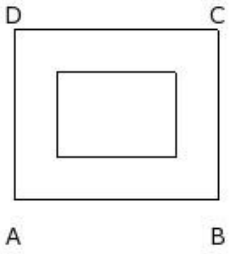
(i) 25.00 sq.cm (ii) 30.00 sq.cm (iii) 28.00 sq.cm (iv) 20.00 sq.cm (v) 22.00 sq.cm

13. If height of an equilateral triangle is 17.32 cm, the area of the equilateral triangle =



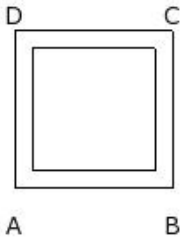
(i) 191.21 sq.cm (ii) 173.21 sq.cm (iii) 149.21 sq.cm (iv) 199.21 sq.cm (v) 170.21 sq.cm

14. If the outer length, inner breadth and area of the inner rectangle of a rectangular path are 12.00 cm, 5.00 cm and 35.00 sq.cm respectively, the area of the outer rectangle of the rectangular path =



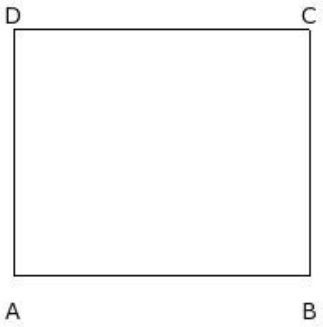
(i) 102.00 sq.cm (ii) 144.00 sq.cm (iii) 107.00 sq.cm (iv) 133.00 sq.cm (v) 120.00 sq.cm

15. If the areas of inner and outer squares of a square path are 49.00 sq.cm and 81.00 sq.cm respectively, the area of the square path =



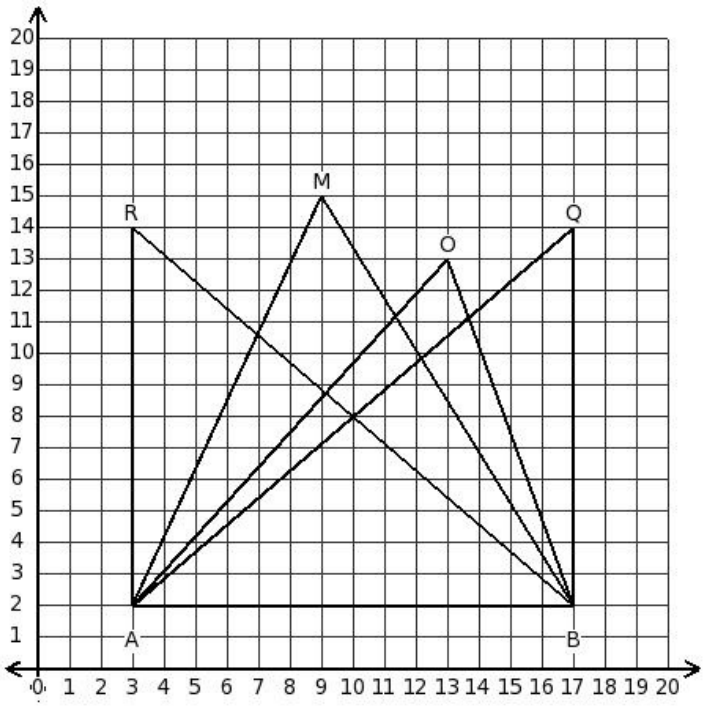
(i) 37.00 sq.cm (ii) 32.00 sq.cm (iii) 35.00 sq.cm (iv) 27.00 sq.cm (v) 29.00 sq.cm

16. If the length and breadth of a rectangle are 18.00 cm and 15.00 cm respectively, the area of the rectangle =



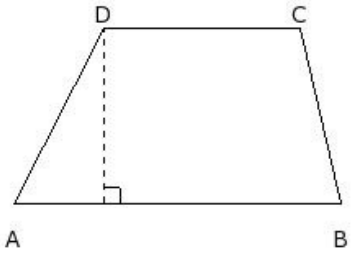
(i) 293.00 sq.cm (ii) 253.00 sq.cm (iii) 270.00 sq.cm (iv) 245.00 sq.cm (v) 272.00 sq.cm

17. Consider the following triangles. Which two triangles have the same area?



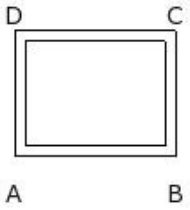
(i) △QAB and △MAB (ii) △QAB and △OAB (iii) △RAB and △OAB (iv) △RAB and △MAB (v) △RAB and △QAB

18. In trapezium ABCD, if distance between the parallel sides is 10.67 cm and lengths of the parallel sides AB = 20.00 cm and CD = 12.00 cm, then area of the trapezium =



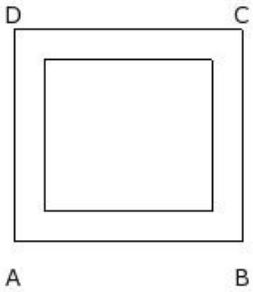
(i) 170.72 sq.cm (ii) 155.72 sq.cm (iii) 192.72 sq.cm (iv) 147.72 sq.cm (v) 173.72 sq.cm

19. If the inner length, inner breadth, outer length and outer breadth of a rectangular path are 8.00 cm, 6.00 cm, 9.20 cm and 7.20 cm respectively, the area of the inner rectangle of the rectangular path =



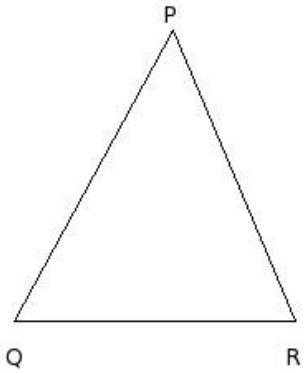
(i) 48.00 sq.cm (ii) 43.00 sq.cm (iii) 53.00 sq.cm (iv) 45.00 sq.cm (v) 51.00 sq.cm

20. If the inner length, outer breadth and width of a rectangular path are 10.00 cm, 12.60 cm and 1.80 cm respectively, the area of the rectangular path =



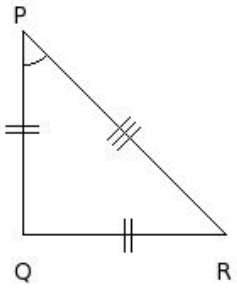
(i) 78.36 sq.cm (ii) 86.36 sq.cm (iii) 81.36 sq.cm (iv) 84.36 sq.cm (v) 76.36 sq.cm

21. In △PQR, if QR = 17 cm, RP = 19 cm and perimeter = 56 cm, then area of the triangle =



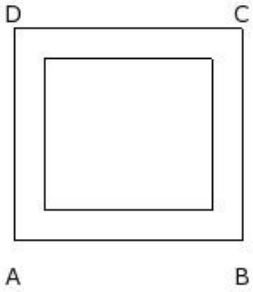
(i) 156.92 sq.cm (ii) 133.92 sq.cm (iii) 148.92 sq.cm (iv) 176.92 sq.cm (v) 141.92 sq.cm

22. In an isosceles right angled triangle △PQR, if RP = 16.97 cm is the hypotenuse, then area of the triangle =



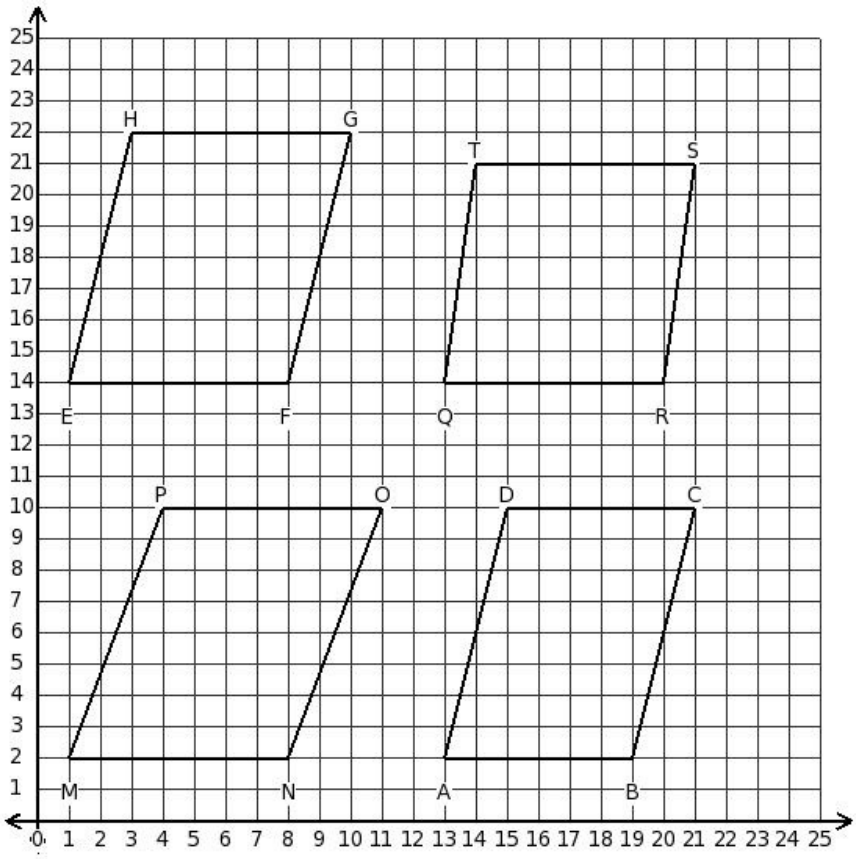
(i) 69.00 sq.cm (ii) 75.00 sq.cm (iii) 67.00 sq.cm (iv) 77.00 sq.cm (v) 72.00 sq.cm

23. If the inner length, outer breadth and area of the inner rectangle of a rectangular path are 10.00 cm, 12.60 cm and 90.00 sq.cm respectively, the area of the outer rectangle of the rectangular path =



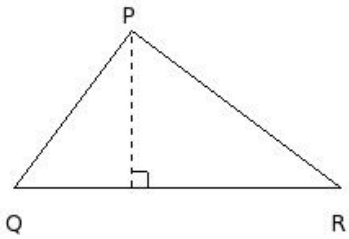
(i) 158.36 sq.cm (ii) 186.36 sq.cm (iii) 155.36 sq.cm (iv) 171.36 sq.cm (v) 173.36 sq.cm

24. Consider the following parallelograms. Which two parallelograms have the same area?



(i) ABCD and EFGH (ii) ABCD and QRST (iii) MNOP and QRST (iv) EFGH and QRST (v) EFGH and MNOP

25. In △PQR, if base QR = 20 cm and the corresponding height of side QR = 9.6 cm, then area of the triangle =



(i) 101.00 sq.cm (ii) 96.00 sq.cm (iii) 93.00 sq.cm (iv) 99.00 sq.cm (v) 91.00 sq.cm

Assignment Key

1) (ii)	2) (i)	3) (i)	4) (ii)	5) (v)	6) (iv)
7) (v)	8) (i)	9) (ii)	10) (ii)	11) (v)	12) (i)
13) (ii)	14) (v)	15) (ii)	16) (iii)	17) (v)	18) (i)
19) (i)	20) (iii)	21) (iii)	22) (v)	23) (iv)	24) (v)
25) (ii)					