EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Areas of Parallelograms and Triangles

Grade : CBSE Grade IX

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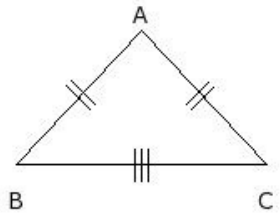
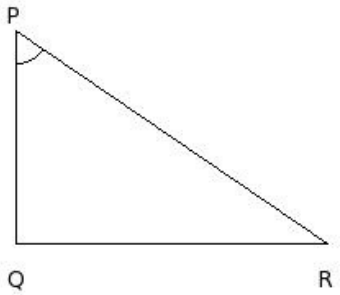
1. In an isosceles triangle △ABC, if BC = 15 cm, AB = CA = 11 cm, then area of the triangle =



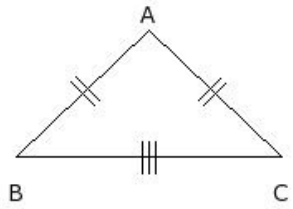
(i) 57.35 sq.cm (ii) 55.35 sq.cm (iii) 65.35 sq.cm (iv) 63.35 sq.cm (v) 60.35 sq.cm

2. In a right angled triangle △PQR, if QR = 19 cm, PQ = 13 cm are the lengths of perpendicular sides , then area of the triangle =



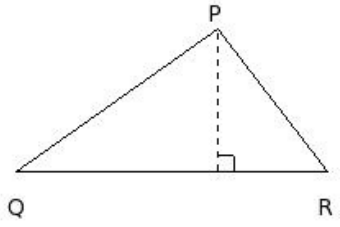
(i) 127.50 sq.cm (ii) 99.50 sq.cm (iii) 123.50 sq.cm (iv) 138.50 sq.cm (v) 116.50 sq.cm

3. In an isosceles triangle △ABC, if BC = 16 cm, AB = CA = 11 cm, then area of the triangle =



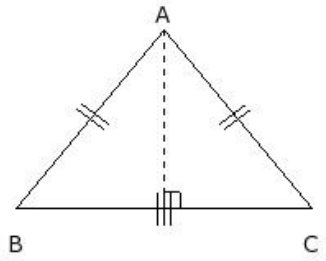
(i) 63.40 sq.cm (ii) 65.40 sq.cm (iii) 60.40 sq.cm (iv) 55.40 sq.cm (v) 57.40 sq.cm

4. In △PQR, if base QR = 19 cm and the corresponding height of side QR = 8.68 cm, then area of the triangle =



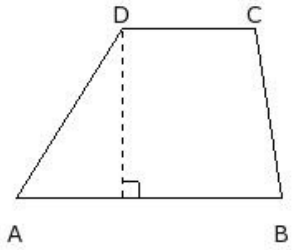
(i) 85.41 sq.cm (ii) 79.41 sq.cm (iii) 77.41 sq.cm (iv) 87.41 sq.cm (v) 82.41 sq.cm

5. In an isosceles triangle △ABC, if base BC = 18 cm and the corresponding height is 10.72 cm, then area of the triangle =



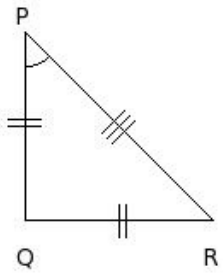
(i) 93.51 sq.cm (ii) 99.51 sq.cm (iii) 101.51 sq.cm (iv) 91.51 sq.cm (v) 96.51 sq.cm

6. In trapezium ABCD, if distance between the parallel sides is 10.17 cm and lengths of the parallel sides AB = 16.00 cm and CD = 8.00 cm, then area of the trapezium =



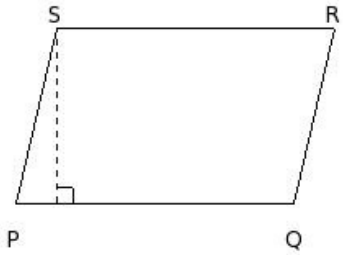
(i) 122.04 sq.cm (ii) 139.04 sq.cm (iii) 108.04 sq.cm (iv) 134.04 sq.cm (v) 97.04 sq.cm

7. In an isosceles right angled triangle △PQR, if QR = 11 cm is one of the equal sides, then area of the triangle =



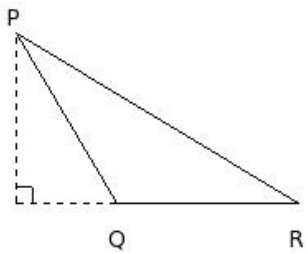
(i) 60.50 sq.cm (ii) 55.50 sq.cm (iii) 63.50 sq.cm (iv) 57.50 sq.cm (v) 65.50 sq.cm

8. In parallelogram PQRS, if base PQ = 17.00 cm and the corresponding height is 10.71 cm, then area of the parallelogram =



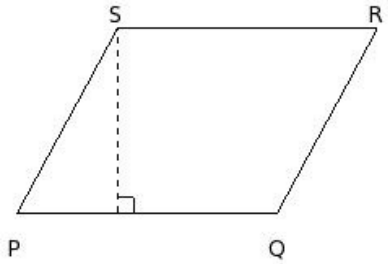
(i) 182.07 sq.cm (ii) 167.07 sq.cm (iii) 210.07 sq.cm (iv) 196.07 sq.cm (v) 164.07 sq.cm

9. In △PQR, if QR = 11 cm, RP = 20 cm and the corresponding height of side QR = 10.31 cm, then area of the triangle =



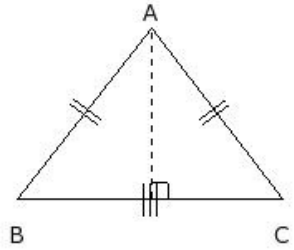
(i) 56.72 sq.cm (ii) 53.72 sq.cm (iii) 61.72 sq.cm (iv) 51.72 sq.cm (v) 59.72 sq.cm

10. In parallelogram PQRS, if base PQ = 16.00 cm and the corresponding height is 11.40 cm, then area of the parallelogram =



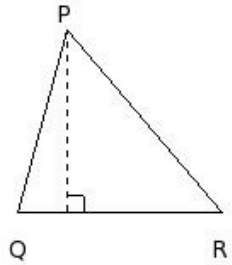
(i) 200.40 sq.cm (ii) 168.40 sq.cm (iii) 196.40 sq.cm (iv) 182.40 sq.cm (v) 177.40 sq.cm

11. In an isosceles triangle △ABC, if base BC = 16 cm and the corresponding height is 10.25 cm, then area of the triangle =



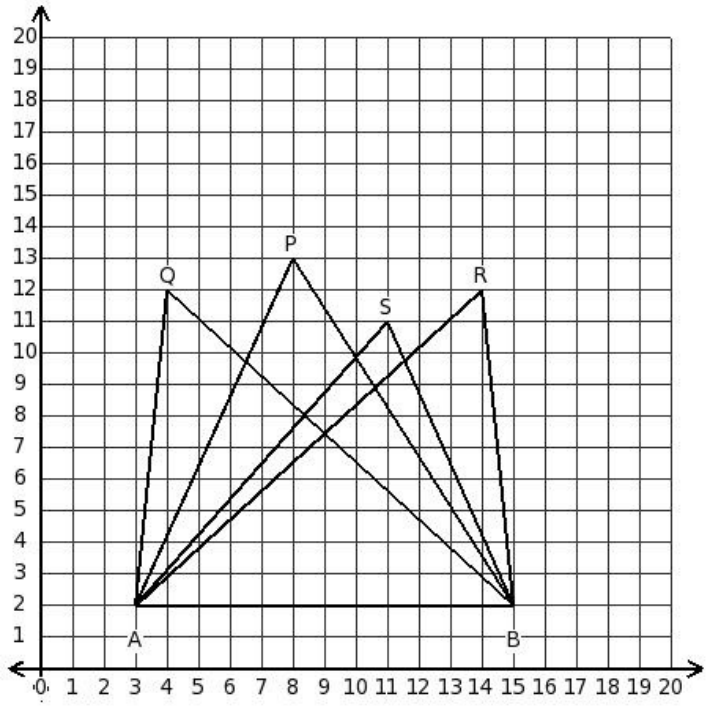
(i) 84.98 sq.cm (ii) 78.98 sq.cm (iii) 86.98 sq.cm (iv) 81.98 sq.cm (v) 76.98 sq.cm

12. In △PQR, if base QR = 12 cm and the corresponding height of side QR = 10.62 cm, then area of the triangle =



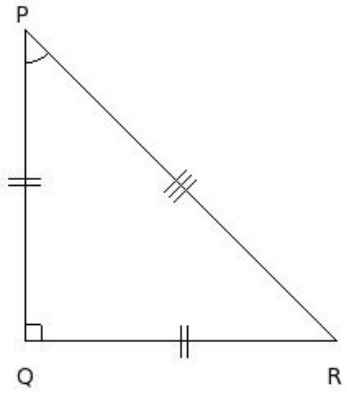
(i) 60.71 sq.cm (ii) 58.71 sq.cm (iii) 68.71 sq.cm (iv) 63.71 sq.cm (v) 66.71 sq.cm

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



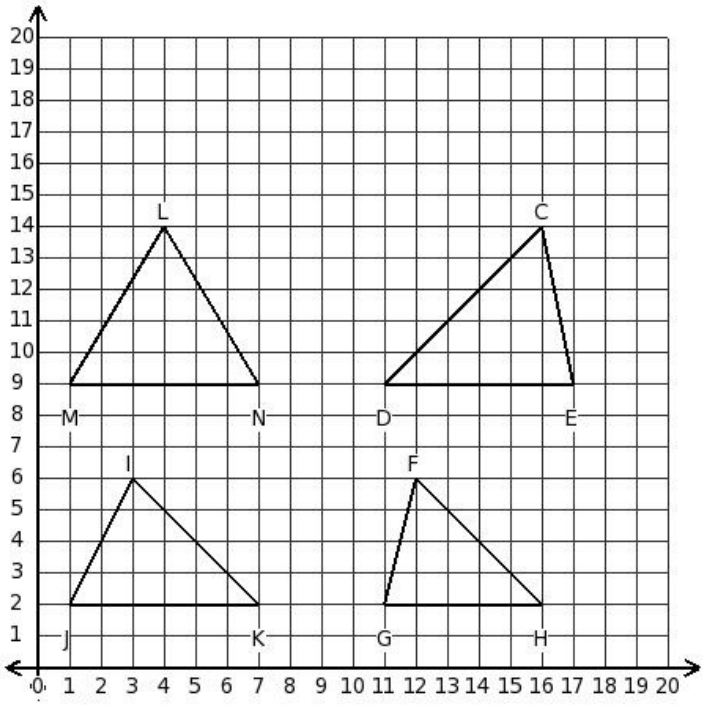
(i) △QAB and △PAB (ii) △RAB and △PAB (iii) △QAB and △SAB (iv) △QAB and △RAB (v) △RAB and △SAB

14. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 19 cm, then area of the triangle =



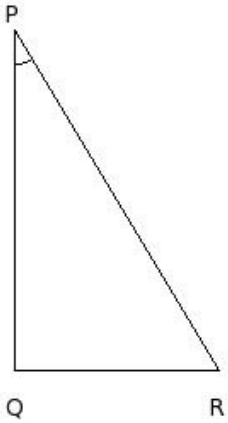
(i) 193.50 sq.cm (ii) 180.50 sq.cm (iii) 202.50 sq.cm (iv) 176.50 sq.cm (v) 164.50 sq.cm

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



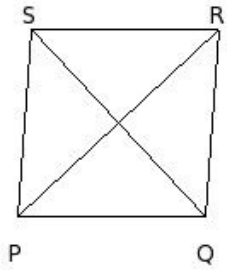
(i) △CDE and △LMN (ii) △FGH and △IJK (iii) △CDE and △IJK (iv) △FGH and △LMN (v) △CDE and △FGH

16. In a right angled triangle △PQR, if QR = 12 cm is one of the perpendicular sides and RP = 23.32 cm is the hypotenuse, then area of the triangle =



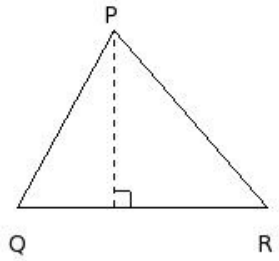
(i) 120.00 sq.cm (ii) 107.00 sq.cm (iii) 124.00 sq.cm (iv) 96.00 sq.cm (v) 148.00 sq.cm

17. In rhombus PQRS, if diagonals QS = 15.00 cm and PR = 16.09 cm, the area of the rhombus =



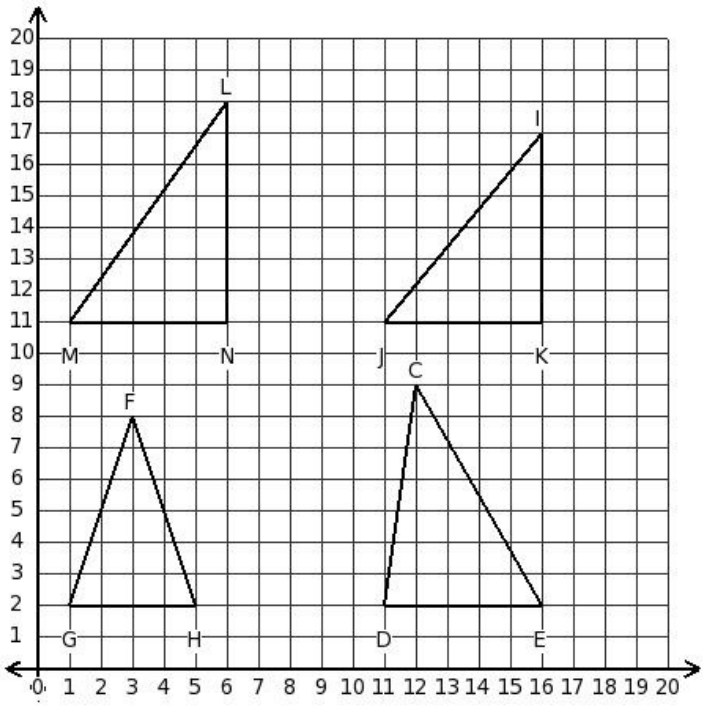
(i) 120.67 sq.cm (ii) 103.67 sq.cm (iii) 96.67 sq.cm (iv) 138.67 sq.cm

18. In △PQR, if QR = 15 cm, RP = 14 cm and the corresponding height of side QR = 10.52 cm, then area of the triangle =



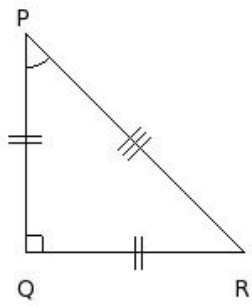
(i) 81.93 sq.cm (ii) 83.93 sq.cm (iii) 75.93 sq.cm (iv) 73.93 sq.cm (v) 78.93 sq.cm

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



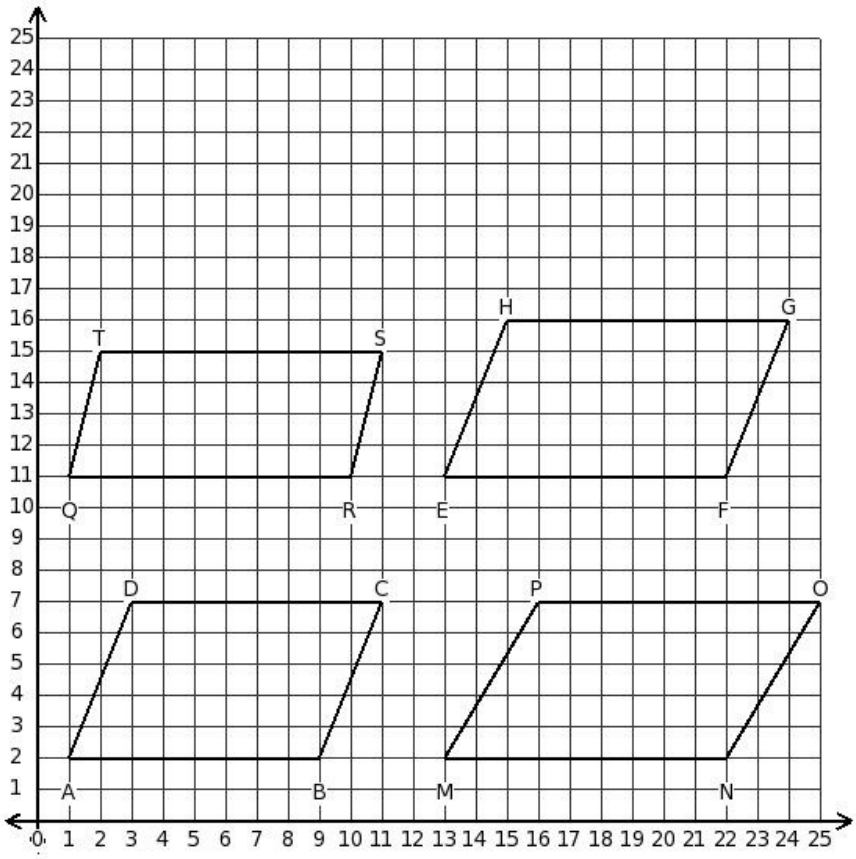
(i) △FGH and △IJK (ii) △CDE and △IJK (iii) △FGH and △LMN (iv) △CDE and △FGH (v) △CDE and △LMN

20. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 13 cm, then area of the triangle =



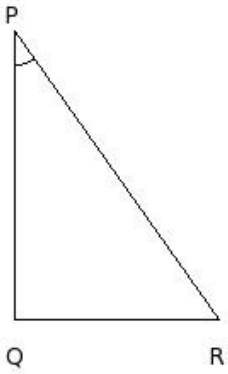
(i) 81.50 sq.cm (ii) 79.50 sq.cm (iii) 87.50 sq.cm (iv) 89.50 sq.cm (v) 84.50 sq.cm

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



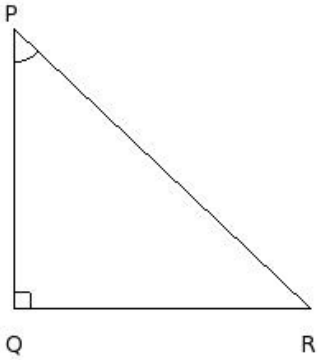
(i) ABCD and EFGH (ii) MNOP and QRST (iii) EFGH and QRST (iv) ABCD and QRST (v) EFGH and MNOP

22. In a right angled triangle △PQR, if QR = 12 cm is one of the perpendicular sides and RP = 20.81 cm is the hypotenuse, then area of the triangle =



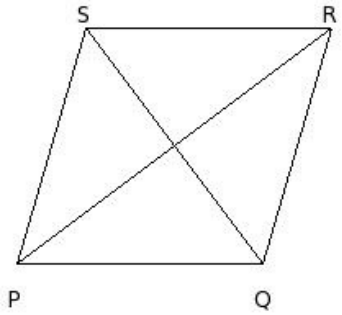
(i) 130.00 sq.cm (ii) 118.00 sq.cm (iii) 84.00 sq.cm (iv) 89.00 sq.cm (v) 102.00 sq.cm

23. In a right angled triangle △PQR, if the base QR = 18 cm and the corresponding height is 17 cm, then area of the triangle =



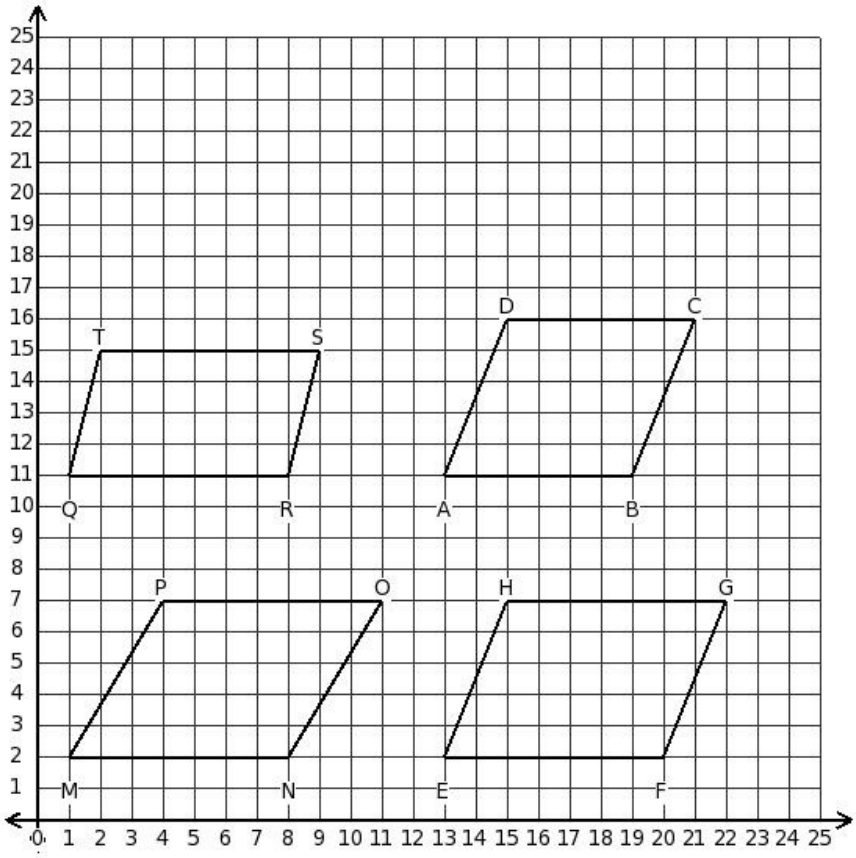
(i) 147.00 sq.cm (ii) 153.00 sq.cm (iii) 128.00 sq.cm (iv) 170.00 sq.cm (v) 165.00 sq.cm

24. In rhombus PQRS, if diagonals QS = 18.00 cm and PR = 24.00 cm, the area of the rhombus =



(i) 200.00 sq.cm (ii) 203.00 sq.cm (iii) 216.00 sq.cm (iv) 231.00 sq.cm (v) 218.00 sq.cm

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



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

Assignment Key

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