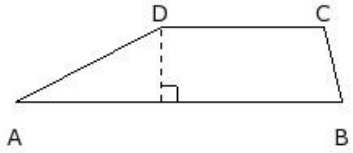
EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Areas of Parallelograms and Triangles

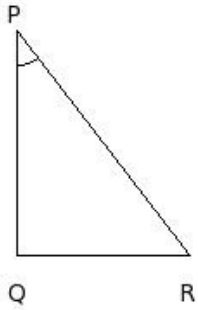
Grade : CBSE Grade IX

1. In trapezium ABCD, if distance between the parallel sides is 4.56 cm and lengths of the parallel sides AB = 20.00 cm and CD = 10.00 cm, then area of the trapezium =



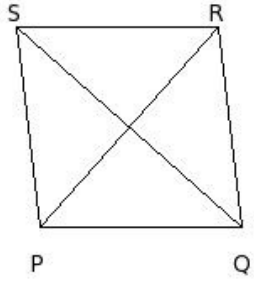
(i) 63.40 sq.cm (ii) 65.40 sq.cm (iii) 73.40 sq.cm (iv) 71.40 sq.cm (v) 68.40 sq.cm

2. In a right angled triangle △PQR, if QR = 10 cm, PQ = 13 cm are the lengths of perpendicular sides , then area of the triangle =



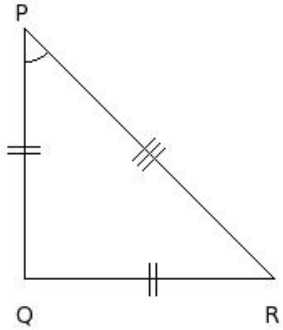
(i) 68.00 sq.cm (ii) 62.00 sq.cm (iii) 65.00 sq.cm (iv) 60.00 sq.cm (v) 70.00 sq.cm

3. In rhombus PQRS, if diagonals QS = 18.00 cm and PR = 15.87 cm, the area of the rhombus =



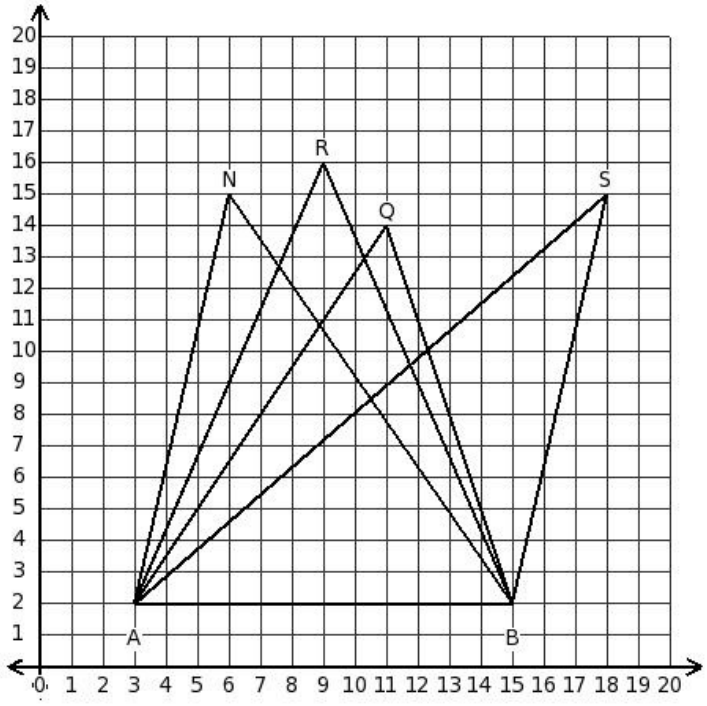
(i) 155.83 sq.cm (ii) 142.83 sq.cm (iii) 169.83 sq.cm (iv) 140.83 sq.cm (v) 128.83 sq.cm

4. In an isosceles right angled triangle △PQR, if QR = 15 cm is one of the equal sides, then area of the triangle =



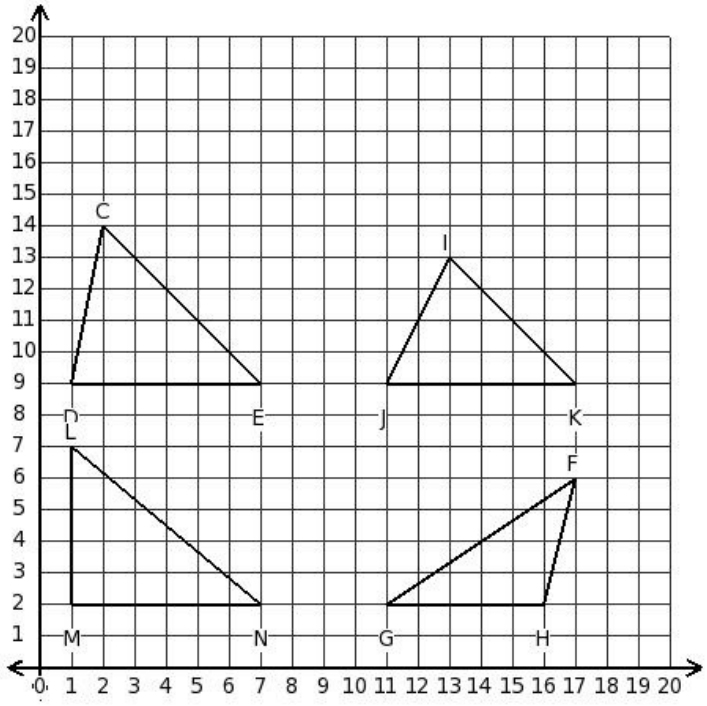
(i) 112.50 sq.cm (ii) 129.50 sq.cm (iii) 110.50 sq.cm (iv) 116.50 sq.cm (v) 94.50 sq.cm

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



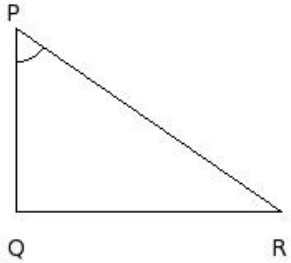
(i) △NAB and △RAB (ii) △NAB and △SAB (iii) △SAB and △RAB (iv) △NAB and △QAB (v) △SAB and △QAB

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



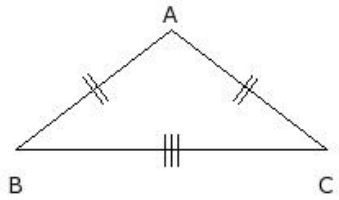
(i) △CDE and △LMN (ii) △CDE and △IJK (iii) △FGH and △LMN (iv) △FGH and △IJK (v) △CDE and △FGH

7. In a right angled triangle △PQR, if QR = 16 cm is one of the perpendicular sides and RP = 19.42 cm is the hypotenuse, then area of the triangle =



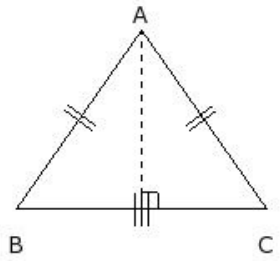
(i) 88.00 sq.cm (ii) 93.00 sq.cm (iii) 83.00 sq.cm (iv) 85.00 sq.cm (v) 91.00 sq.cm

8. In an isosceles triangle △ABC, if BC = 19 cm, AB = CA = 12 cm, then area of the triangle =



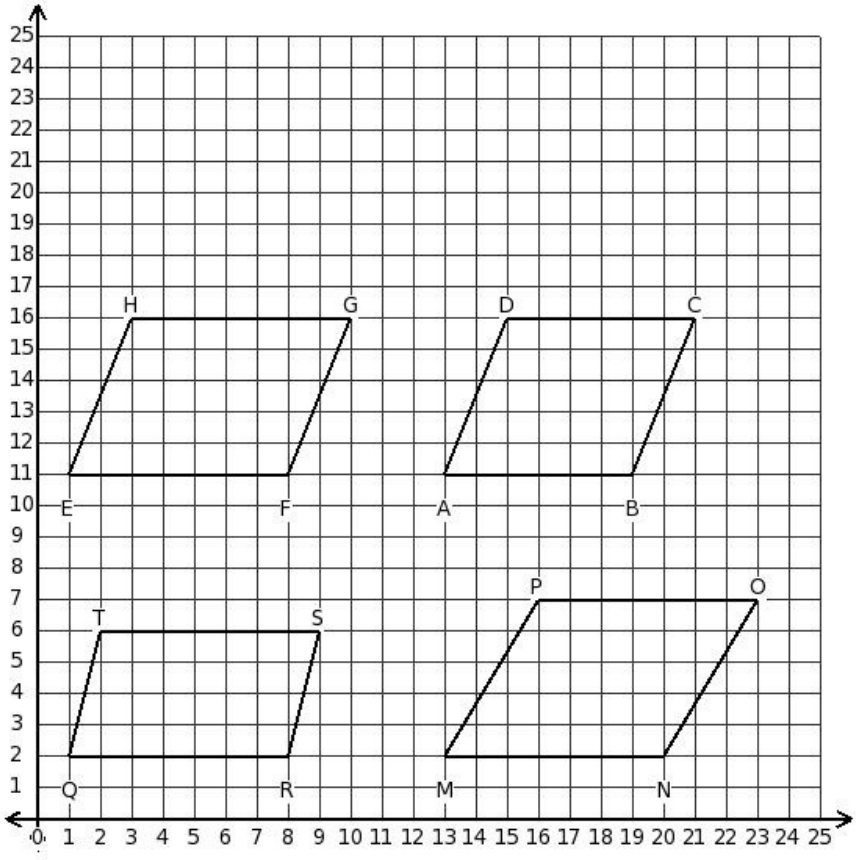
(i) 64.65 sq.cm (ii) 74.65 sq.cm (iii) 72.65 sq.cm (iv) 69.65 sq.cm (v) 66.65 sq.cm

9. In an isosceles triangle △ABC, if base BC = 15 cm and the corresponding height is 10.62 cm, then area of the triangle =



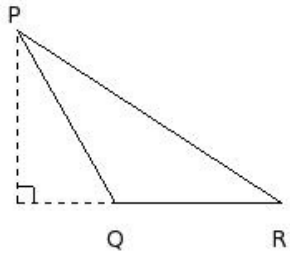
(i) 74.64 sq.cm (ii) 82.64 sq.cm (iii) 76.64 sq.cm (iv) 84.64 sq.cm (v) 79.64 sq.cm

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



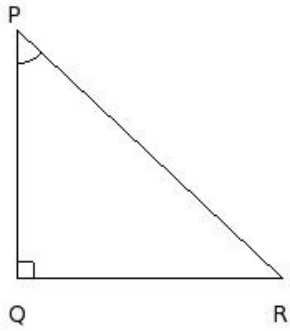
(i) EFGH and MNOP (ii) ABCD and QRST (iii) EFGH and QRST (iv) MNOP and QRST (v) ABCD and EFGH

11. In △PQR, if QR = 10 cm, RP = 19 cm and the corresponding height of side QR = 10.48 cm, then area of the triangle =



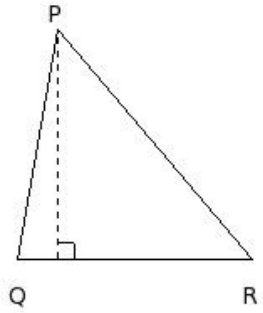
(i) 55.39 sq.cm (ii) 57.39 sq.cm (iii) 47.39 sq.cm (iv) 52.39 sq.cm (v) 49.39 sq.cm

12. In a right angled triangle △PQR, if the base QR = 16 cm and the corresponding height is 15 cm, then area of the triangle =



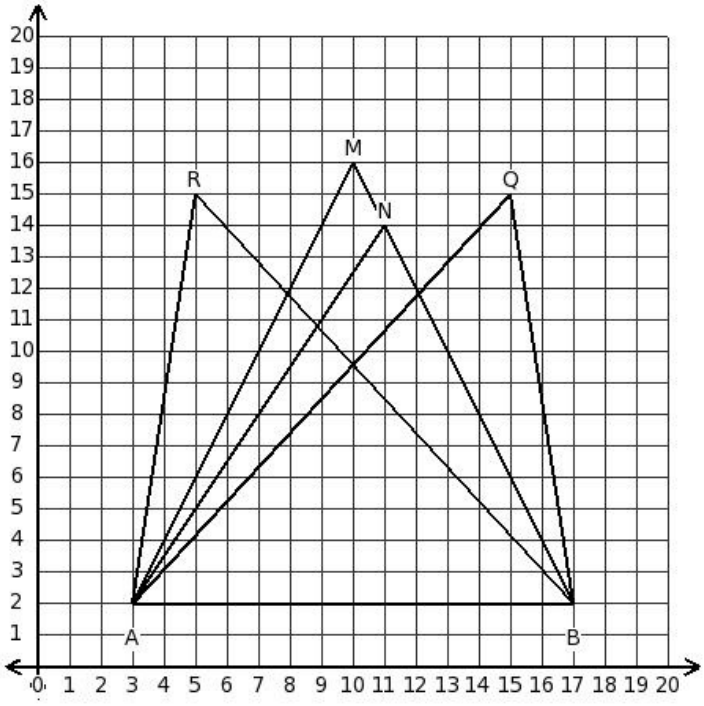
(i) 115.00 sq.cm (ii) 133.00 sq.cm (iii) 93.00 sq.cm (iv) 138.00 sq.cm (v) 120.00 sq.cm

13. In △PQR, if QR = 14 cm, RP = 18 cm and the corresponding height of side QR = 13.79 cm, then area of the triangle =



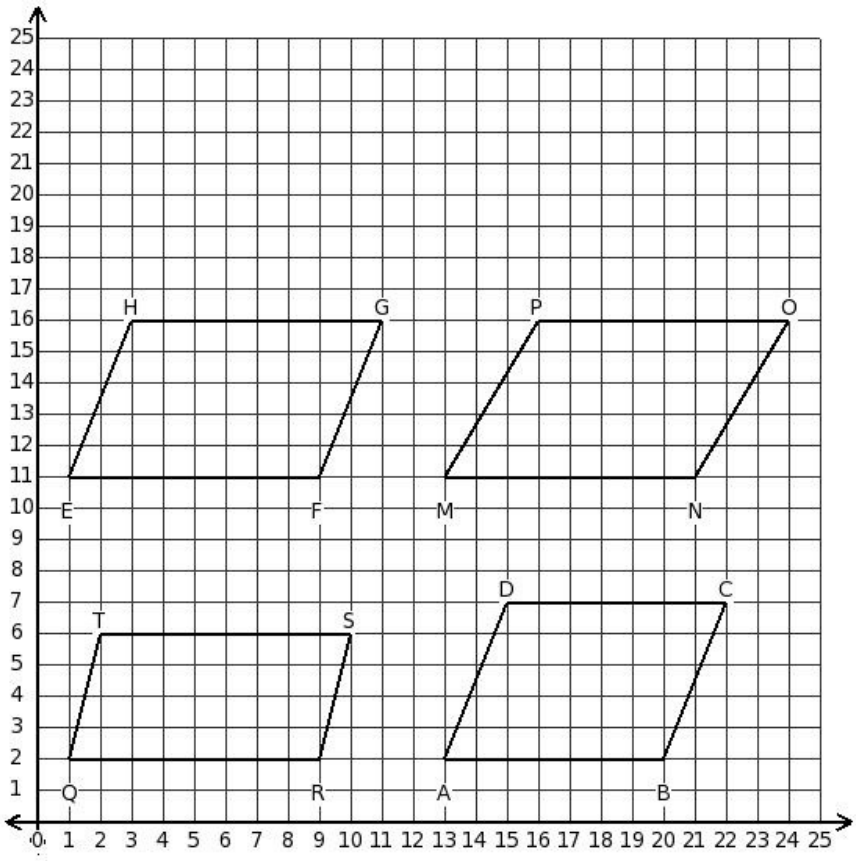
(i) 99.51 sq.cm (ii) 93.51 sq.cm (iii) 96.51 sq.cm (iv) 101.51 sq.cm (v) 91.51 sq.cm

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



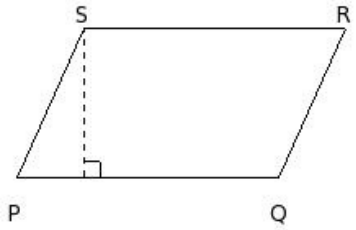
(i) △QAB and △MAB (ii) △RAB and △NAB (iii) △RAB and △QAB (iv) △QAB and △NAB (v) △RAB and △MAB

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



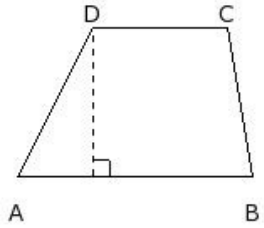
(i) ABCD and QRST (ii) MNOP and QRST (iii) ABCD and EFGH (iv) EFGH and QRST (v) EFGH and MNOP

16. In parallelogram PQRS, if base PQ = 16.00 cm and the corresponding height is 9.12 cm, then area of the parallelogram =



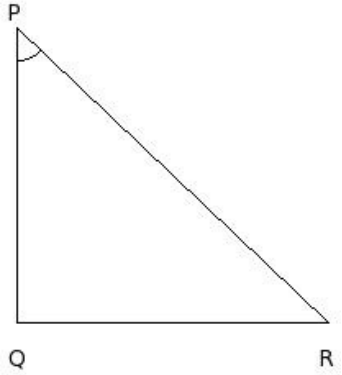
(i) 169.92 sq.cm (ii) 119.92 sq.cm (iii) 130.92 sq.cm (iv) 158.92 sq.cm (v) 145.92 sq.cm

17. In trapezium ABCD, if distance between the parallel sides is 8.91 cm and lengths of the parallel sides AB = 14.00 cm and CD = 8.00 cm, then area of the trapezium =



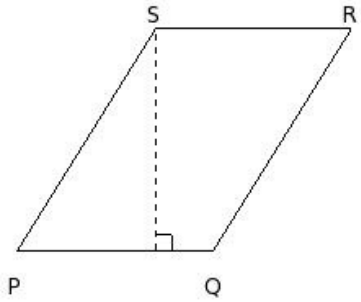
(i) 103.01 sq.cm (ii) 95.01 sq.cm (iii) 101.01 sq.cm (iv) 93.01 sq.cm (v) 98.01 sq.cm

18. In a right angled triangle △PQR, if QR = 19 cm, PQ = 18 cm are the lengths of perpendicular sides , then area of the triangle =



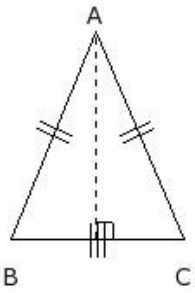
(i) 193.00 sq.cm (ii) 187.00 sq.cm (iii) 169.00 sq.cm (iv) 154.00 sq.cm (v) 171.00 sq.cm

19. In parallelogram PQRS, if base PQ = 12.00 cm and the corresponding height is 13.56 cm, then area of the parallelogram =



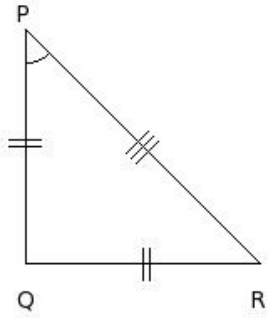
(i) 135.72 sq.cm (ii) 174.72 sq.cm (iii) 149.72 sq.cm (iv) 190.72 sq.cm (v) 162.72 sq.cm

20. In an isosceles triangle △ABC, if base BC = 10 cm and the corresponding height is 12 cm, then area of the triangle =



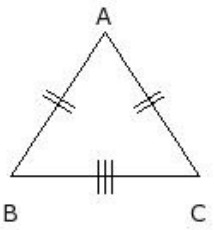
(i) 60.00 sq.cm (ii) 55.00 sq.cm (iii) 63.00 sq.cm (iv) 57.00 sq.cm (v) 65.00 sq.cm

21. In an isosceles right angled triangle △PQR, if QR = 14 cm is one of the equal sides, then area of the triangle =



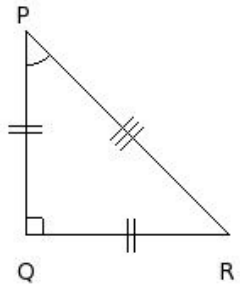
(i) 95.00 sq.cm (ii) 93.00 sq.cm (iii) 98.00 sq.cm (iv) 101.00 sq.cm (v) 103.00 sq.cm

22. In an isosceles triangle △ABC, if BC = 11 cm, AB = CA = 10 cm, then area of the triangle =



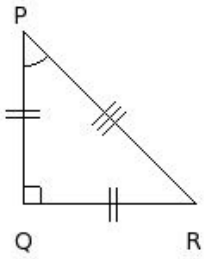
(i) 50.93 sq.cm (ii) 42.93 sq.cm (iii) 40.93 sq.cm (iv) 45.93 sq.cm (v) 48.93 sq.cm

23. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 12 cm, then area of the triangle =



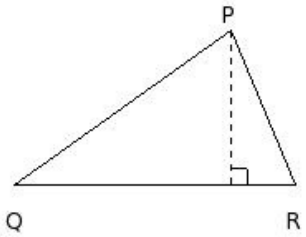
(i) 72.00 sq.cm (ii) 75.00 sq.cm (iii) 77.00 sq.cm (iv) 67.00 sq.cm (v) 69.00 sq.cm

24. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 10 cm, then area of the triangle =



(i) 45.00 sq.cm (ii) 47.00 sq.cm (iii) 50.00 sq.cm (iv) 53.00 sq.cm (v) 55.00 sq.cm

25. In △PQR, if base QR = 17 cm and the corresponding height of side QR = 9.2 cm, then area of the triangle =



(i) 75.23 sq.cm (ii) 73.23 sq.cm (iii) 83.23 sq.cm (iv) 81.23 sq.cm (v) 78.23 sq.cm

Assignment Key

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