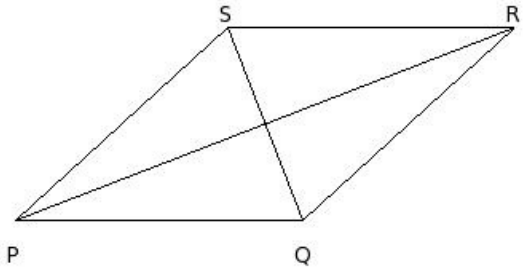
EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Areas of Parallelograms and Triangles

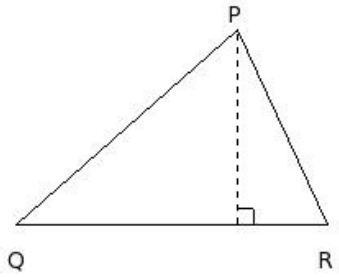
Grade : CBSE Grade IX

1. In rhombus PQRS, if diagonals QS = 13.00 cm and PR = 33.57 cm, the area of the rhombus =



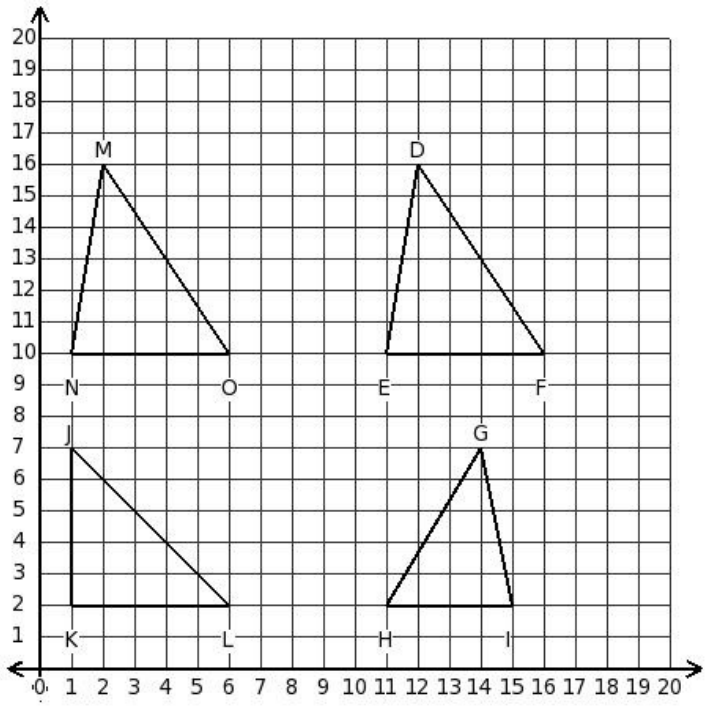
(i) 226.21 sq.cm (ii) 230.21 sq.cm (iii) 214.21 sq.cm (iv) 205.21 sq.cm (v) 218.21 sq.cm

2. In △PQR, if QR = 19 cm, RP = 13 cm and the corresponding height of side QR = 11.82 cm, then area of the triangle =



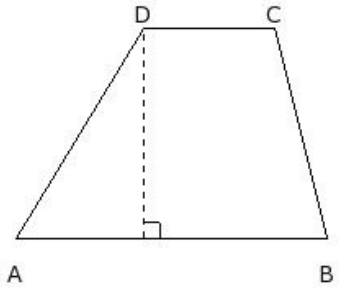
(i) 105.25 sq.cm (ii) 96.25 sq.cm (iii) 112.25 sq.cm (iv) 139.25 sq.cm (v) 114.25 sq.cm

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



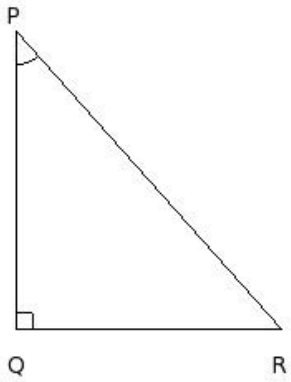
(i) △GHI and △JKL (ii) △DEF and △MNO (iii) △DEF and △GHI (iv) △GHI and △MNO (v) △DEF and △JKL

4. In trapezium ABCD, if distance between the parallel sides is 12.80 cm and lengths of the parallel sides AB = 19.00 cm and CD = 8.00 cm, then area of the trapezium =



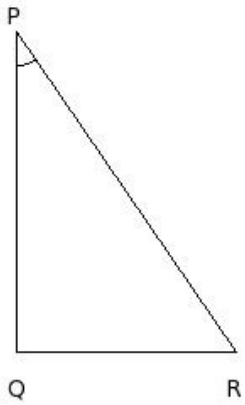
(i) 172.80 sq.cm (ii) 186.80 sq.cm (iii) 155.80 sq.cm (iv) 157.80 sq.cm (v) 198.80 sq.cm

5. In a right angled triangle △PQR, if the base QR = 16 cm and the corresponding height is 18 cm, then area of the triangle =



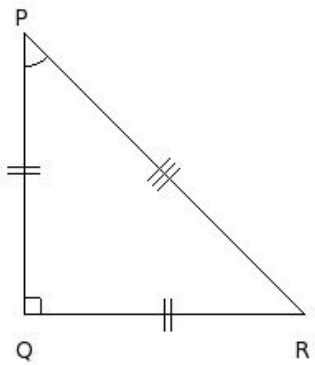
(i) 156.00 sq.cm (ii) 144.00 sq.cm (iii) 131.00 sq.cm (iv) 129.00 sq.cm (v) 160.00 sq.cm

6. In a right angled triangle △PQR, if QR = 13 cm is one of the perpendicular sides and RP = 23.02 cm is the hypotenuse, then area of the triangle =



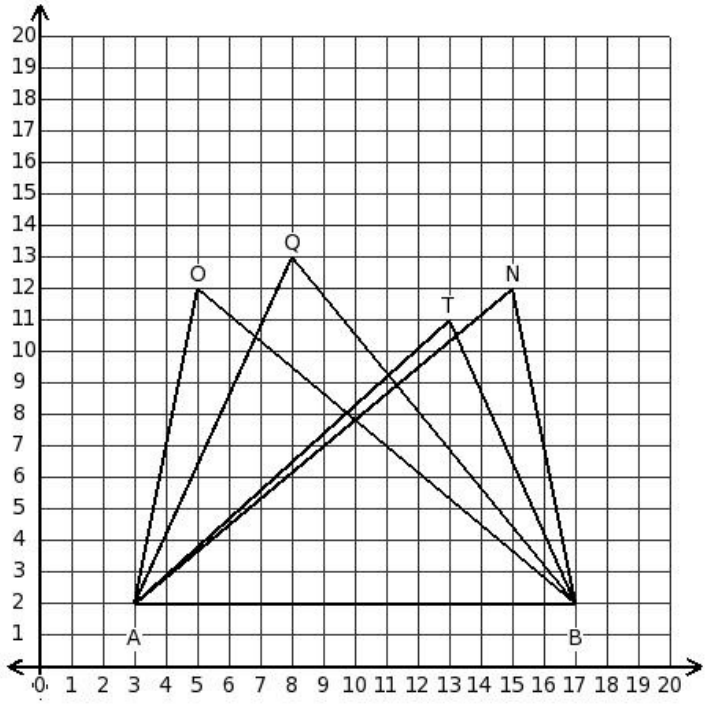
(i) 123.50 sq.cm (ii) 140.50 sq.cm (iii) 139.50 sq.cm (iv) 105.50 sq.cm (v) 107.50 sq.cm

7. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 17 cm, then area of the triangle =



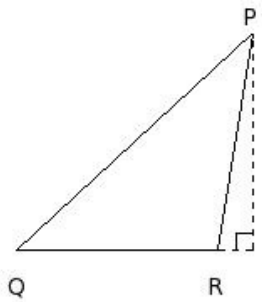
(i) 126.50 sq.cm (ii) 144.50 sq.cm (iii) 129.50 sq.cm (iv) 160.50 sq.cm (v) 161.50 sq.cm

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



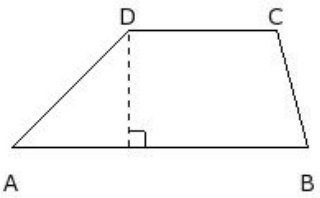
(i) △NAB and △QAB (ii) △OAB and △TAB (iii) △OAB and △QAB (iv) △NAB and △TAB (v) △OAB and △NAB

9. In △PQR, if base QR = 12 cm and the corresponding height of side QR = 12.85 cm, then area of the triangle =



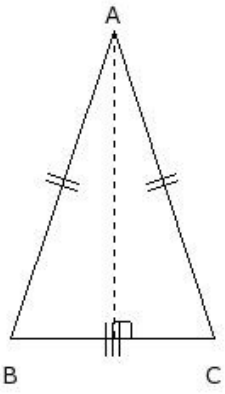
(i) 74.07 sq.cm (ii) 80.07 sq.cm (iii) 82.07 sq.cm (iv) 77.07 sq.cm (v) 72.07 sq.cm

10. In trapezium ABCD, if distance between the parallel sides is 7.06 cm and lengths of the parallel sides AB = 18.00 cm and CD = 9.00 cm, then area of the trapezium =



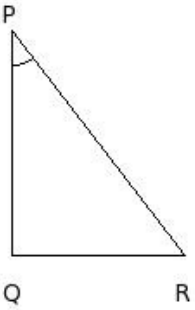
(i) 98.31 sq.cm (ii) 92.31 sq.cm (iii) 100.31 sq.cm (iv) 90.31 sq.cm (v) 95.31 sq.cm

11. In an isosceles triangle △ABC, if base BC = 12 cm and the corresponding height is 18.03 cm, then area of the triangle =



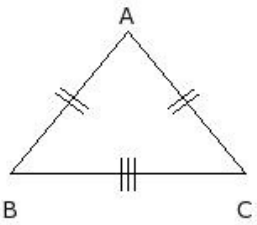
(i) 108.17 sq.cm (ii) 90.17 sq.cm (iii) 126.17 sq.cm (iv) 125.17 sq.cm (v) 91.17 sq.cm

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



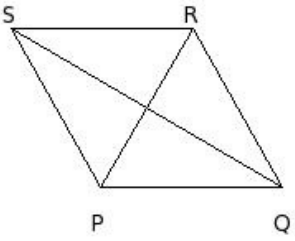
(i) 70.00 sq.cm (ii) 68.00 sq.cm (iii) 65.00 sq.cm (iv) 60.00 sq.cm (v) 62.00 sq.cm

13. In an isosceles triangle △ABC, if BC = 14 cm, AB = CA = 11 cm, then area of the triangle =



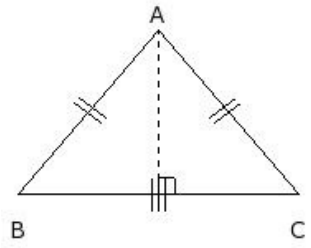
(i) 62.40 sq.cm (ii) 64.40 sq.cm (iii) 54.40 sq.cm (iv) 56.40 sq.cm (v) 59.40 sq.cm

14. In rhombus PQRS, if diagonals QS = 19.00 cm and PR = 11.09 cm, the area of the rhombus =



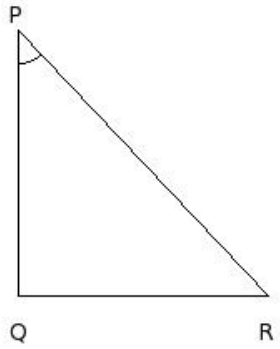
(i) 109.36 sq.cm (ii) 92.36 sq.cm (iii) 123.36 sq.cm (iv) 81.36 sq.cm (v) 105.36 sq.cm

15. In an isosceles triangle △ABC, if base BC = 17 cm and the corresponding height is 9.84 cm, then area of the triangle =



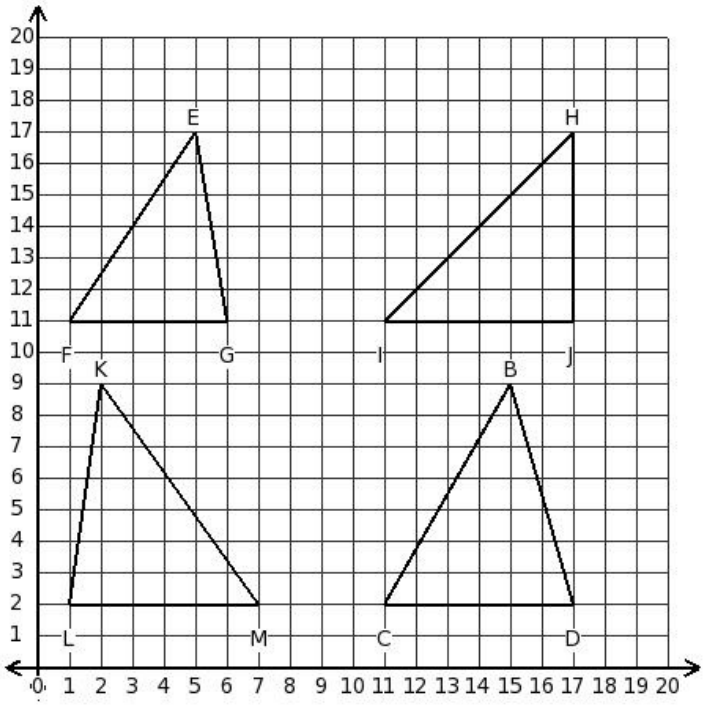
(i) 88.61 sq.cm (ii) 86.61 sq.cm (iii) 78.61 sq.cm (iv) 83.61 sq.cm (v) 80.61 sq.cm

16. In a right angled triangle △PQR, if QR = 15 cm, PQ = 16 cm are the lengths of perpendicular sides , then area of the triangle =



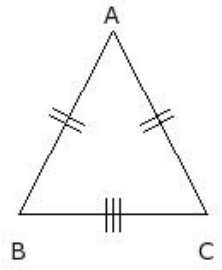
(i) 103.00 sq.cm (ii) 97.00 sq.cm (iii) 120.00 sq.cm (iv) 142.00 sq.cm (v) 135.00 sq.cm

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



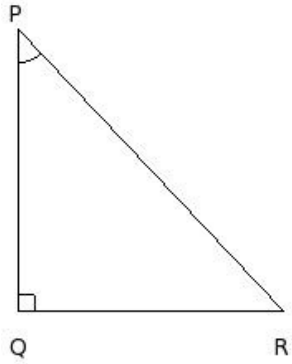
(i) △BCD and △EFG (ii) △BCD and △HIJ (iii) △BCD and △KLM (iv) △EFG and △HIJ (v) △EFG and △KLM

18. In an isosceles triangle △ABC, if BC = 11 cm, AB = CA = 12 cm, then area of the triangle =



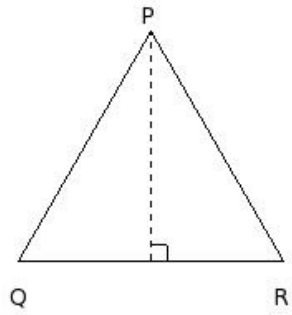
(i) 61.66 sq.cm (ii) 58.66 sq.cm (iii) 55.66 sq.cm (iv) 53.66 sq.cm (v) 63.66 sq.cm

19. In a right angled triangle △PQR, if the base QR = 16 cm and the corresponding height is 17 cm, then area of the triangle =



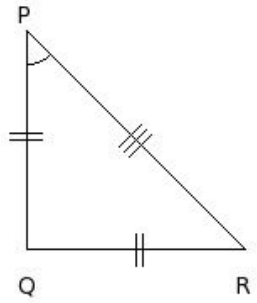
(i) 163.00 sq.cm (ii) 120.00 sq.cm (iii) 136.00 sq.cm (iv) 142.00 sq.cm (v) 118.00 sq.cm

20. In △PQR, if QR = 16 cm, RP = 16 cm and the corresponding height of side QR = 13.86 cm, then area of the triangle =



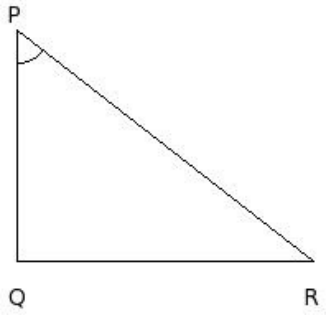
(i) 124.85 sq.cm (ii) 97.85 sq.cm (iii) 128.85 sq.cm (iv) 96.85 sq.cm (v) 110.85 sq.cm

21. In an isosceles right angled triangle △PQR, if QR = 13 cm is one of the equal sides, then area of the triangle =



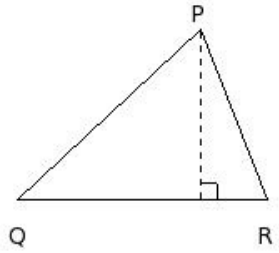
(i) 84.50 sq.cm (ii) 81.50 sq.cm (iii) 79.50 sq.cm (iv) 87.50 sq.cm (v) 89.50 sq.cm

22. In a right angled triangle △PQR, if QR = 18 cm is one of the perpendicular sides and RP = 22.8 cm is the hypotenuse, then area of the triangle =



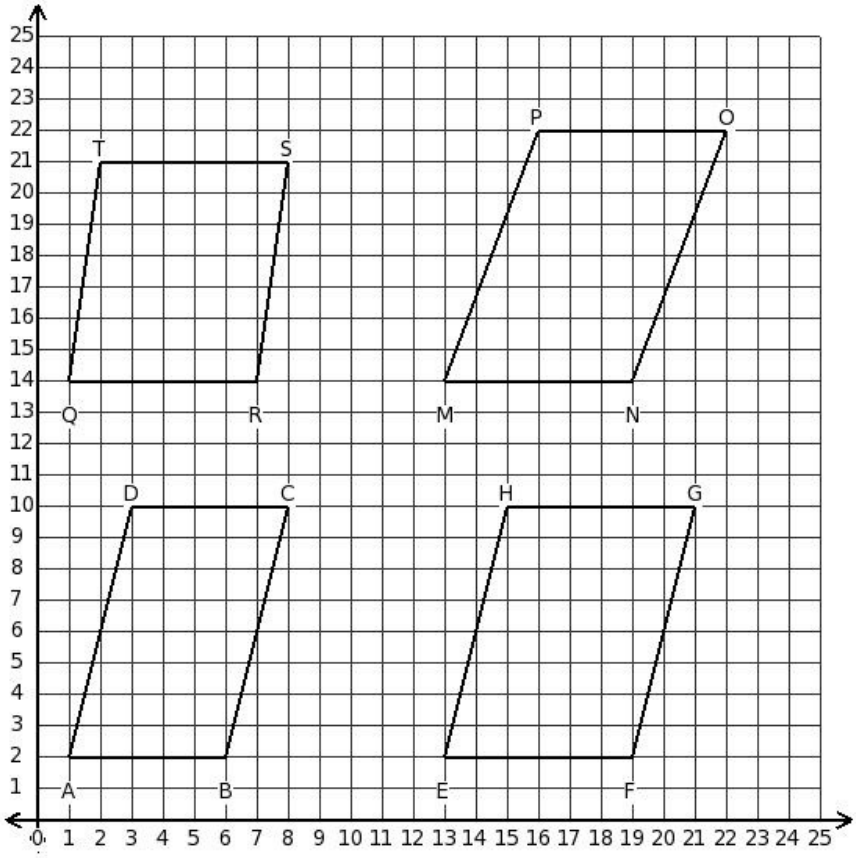
(i) 126.00 sq.cm (ii) 142.00 sq.cm (iii) 114.00 sq.cm (iv) 113.00 sq.cm (v) 154.00 sq.cm

23. In △PQR, if base QR = 15 cm and the corresponding height of side QR = 10.23 cm, then area of the triangle =



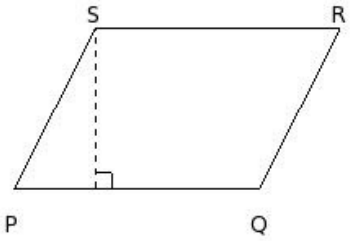
(i) 73.75 sq.cm (ii) 71.75 sq.cm (iii) 79.75 sq.cm (iv) 81.75 sq.cm (v) 76.75 sq.cm

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



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

25. In parallelogram PQRS, if base PQ = 15.00 cm and the corresponding height is 9.80 cm, then area of the parallelogram =



(i) 129.00 sq.cm (ii) 141.00 sq.cm (iii) 175.00 sq.cm (iv) 163.00 sq.cm (v) 147.00 sq.cm

Assignment Key

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