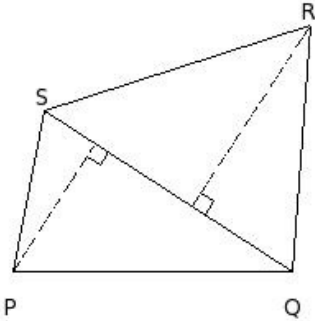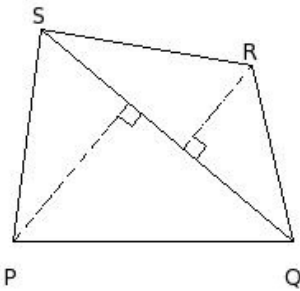1. In quadrilateral PQRS, if diagonal QS = 18.00 cm, perpendiculars from the vertices P and R to the diagonal QS are 9.27 cm and 13.15 cm respectively, then height of the vertex R to the diagonal QS is


(i) 16.15 cm (ii) 18.15 cm (iii) 10.15 cm (iv) 8.15 cm (v) 13.15 cm

2. In quadrilateral PQRS, if diagonal QS = 20.00 cm, perpendiculars from the vertices P and R to the diagonal QS are 10.95 cm and 6.60 cm respectively, then area of the quadrilateral =


(i) 150.50 sq.cm (ii) 168.50 sq.cm (iii) 191.50 sq.cm (iv) 175.50 sq.cm (v) 193.50 sq.cm

3. In quadrilateral PQRS, if diagonal QS = 12.00 cm, height of vertex P to the diagonal QS is 14.88 cm and area is 174.72 sq.cm, then height of the vertex R to the diagonal QS is
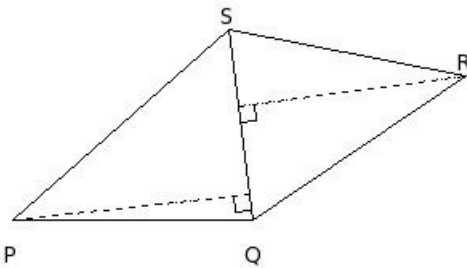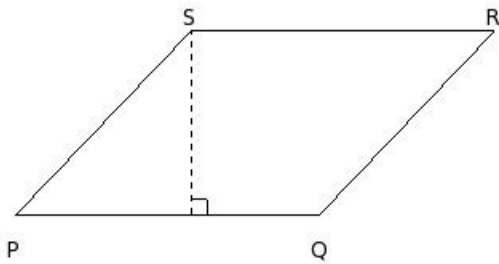

(i) 17.24 cm (ii) 14.24 cm (iii) 11.24 cm (iv) 9.24 cm (v) 19.24 cm

4. In quadrilateral PQRS, if area is 261.36 sq.cm, height of vertex P to the diagonal QS is 16.14 cm, and height of vertex R to the diagonal QS is 12.90 cm, then diagonal QS =
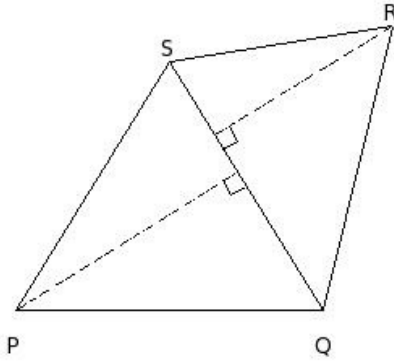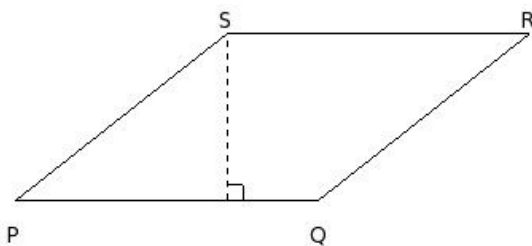

(i) 18.00 cm (ii) 15.00 cm (iii) 23.00 cm (iv) 21.00 cm (v) 13.00 cm

5. In parallelogram PQRS, if base PQ = 19.00 cm and the corresponding height is 11.54 cm, then area of the parallelogram =
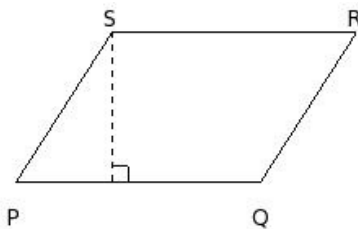

(i) 215.26 sq.cm (ii) 219.26 sq.cm (iii) 191.26 sq.cm (iv) 234.26 sq.cm (v) 226.26 sq.cm

6. In parallelogram PQRS, if base PQ = 19.00 cm and area is 200.83 sq.cm, the corresponding height to the base PQ is

(i) 13.57 cm (ii) 10.57 cm (iii) 5.57 cm (iv) 7.57 cm (v) 15.57 cm

7. In parallelogram PQRS, if distance between the parallel sides PQ and RS is 9.28 cm and area is 139.20 sq.cm, the base of the parallelogram PQ =

(i) 20.00 cm (ii) 18.00 cm (iii) 10.00 cm (iv) 12.00 cm (v) 15.00 cm

8. Consider the following parallelograms. Which two parallelograms have the same area?
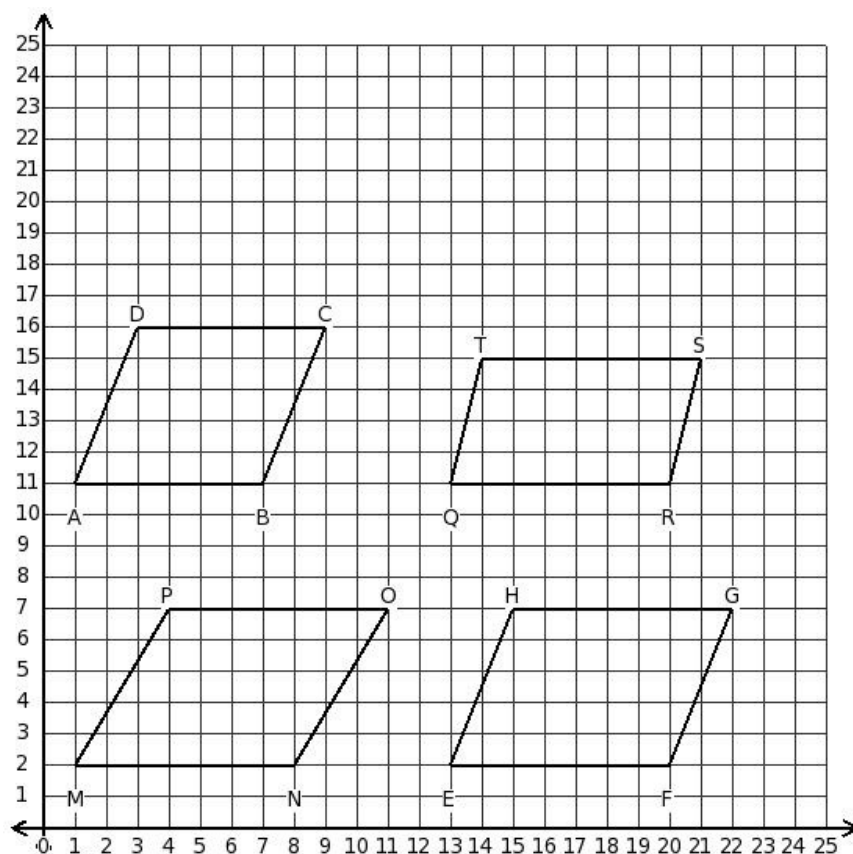
(i) ABCD and QRST (ii) ABCD and EFGH (iii) MNOP and QRST (iv) EFGH and MNOP (v) EFGH and QRST

Assignment Key

1) (v)   2) (iv)   3) (ii)   4) (i)   5) (ii)   6) (ii)

7) (v)   8) (iv)