EduSahara™ Worksheet

Name : Chapter Based Worksheet

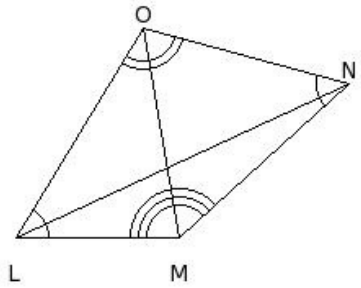
Chapter : Understanding Quadrilaterals

Grade : CBSE Grade VIII

1. If the opposite angles of a parallelogram are supplementary, the measure of each of its angles is

   (i) 90° (ii) 91° (iii) 88° (iv) 92° (v) 89°

2. The angles of the quadrilateral are



   (i) ∠L , ∠M , ∠O , ∠Q (ii) ∠L , ∠M , ∠N , ∠Q (iii) ∠L , ∠M , ∠N , ∠O (iv) ∠L , ∠M , ∠N , ∠P

   (v) ∠L , ∠M , ∠O , ∠P

3. Name all quadrilaterals whose opposite sides are parallel

   (i) parallelogram,square,rhombus,rectangle (ii) square,kite (iii) square,parallelogram (iv) square,rhombus

   (v) rectangle,rhombus

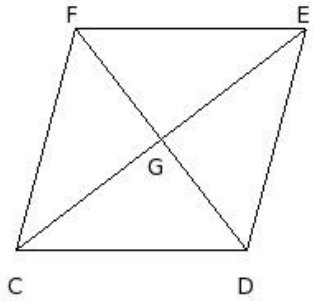
4. How many diagonals does an octagon have?

   (i) 19 (ii) 20 (iii) 23 (iv) 17 (v) 21

5. How many diagonals does a pentagon have?

   (i) 6 (ii) 2 (iii) 7 (iv) 4 (v) 5

6. In rhombus CDEF , diagonals $\overline{CE}$ and $\overline{DF}$ intersect at G . Then $\triangle GCF \ncong$



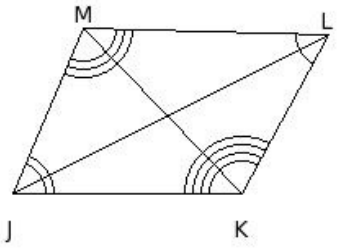
   (i) △GCD (ii) △GEF (iii) △FCD (iv) △GED

7. Name all quadrilaterals whose adjacent angles are supplementary

   (i) parallelogram,square,rhombus,rectangle (ii) square,kite (iii) square,rhombus (iv) square,parallelogram

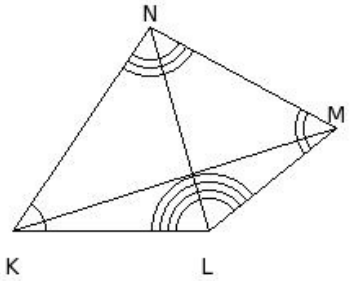
   (v) rectangle,rhombus

8. The name of the quadrilateral is



(i) JKLN (ii) JLMK (iii) JKLM (iv) JLKM (v) JKMN

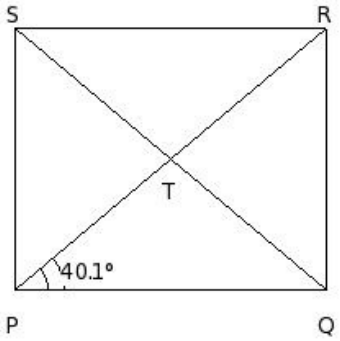
9. The opposite angles of the quadrilateral are



(i) ∠K & ∠M , ∠L & ∠O (ii) ∠K & ∠L , ∠M & ∠N (iii) ∠K & ∠N , ∠M & ∠L (iv) ∠K & ∠M , ∠L & ∠N

(v) ∠K & ∠N , ∠L & ∠O

10. In the adjoining figure, PQRS is a rectangle. If ∠RPQ = 40.1° , find ∠RTQ



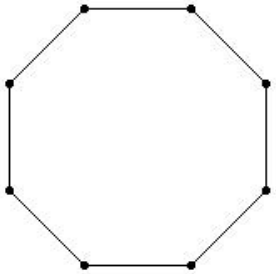
(i) 81.20° (ii) 78.20° (iii) 80.20° (iv) 79.20° (v) 82.20°

11. Which of the following have point symmetry ?

a) rhombus
b) quadrilateral
c) parallelogram
d) square
e) trapezium
f) rectangle

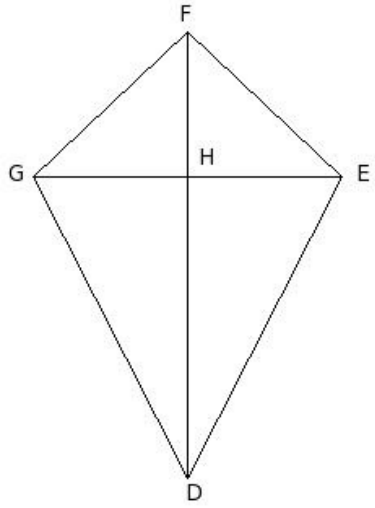
(i) {b,e,d} (ii) {b,a} (iii) {b,f,a} (iv) {a,c,d,f} (v) {e,c}

12. Identify the figure below



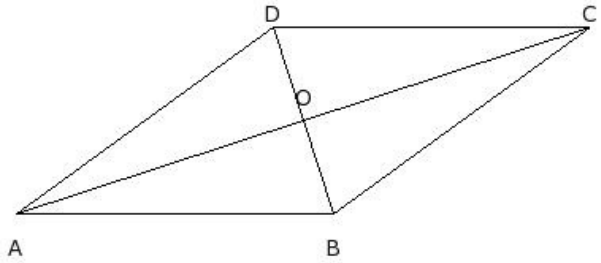
(i) pentagon (ii) octagon (iii) decagon (iv) circle (v) heptagon

13. In kite DEFG, $\overline{DF}$ and $\overline{EG}$ are diagonals. Then ∠GDH =



(i) ∠EDH (ii) ∠GHF (iii) ∠HFE (iv) ∠DHG (v) ∠HFG

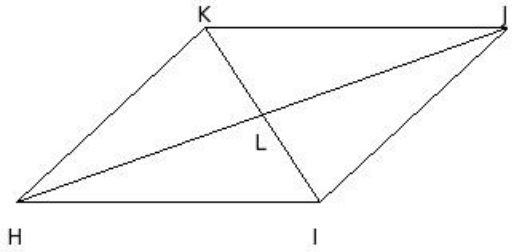
14. In the adjoining figure, ABCD is a rhombus whose diagonals intersect at O.
If ∠OAB : ∠ABO = 3 : 12, find the angles of △OAB.



(i) O = 90°, A = 18°, B = 72° (ii) O = 88°, A = 18°, B = 74° (iii) O = 92°, A = 18°, B = 70° (iv) O = 90°, A = 16°, B = 74°

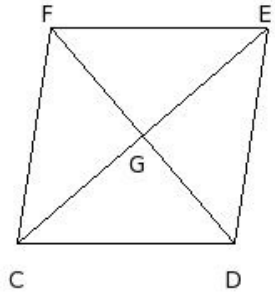
(v) O = 88°, A = 20°, B = 72°

15. In parallelogram HIJK, diagonals $\overline{IK}$ and $\overline{HJ}$ intersect at L. Then HI =



(i) JK (ii) IK (iii) IJ (iv) KH (v) HJ

16. In rhombus CDEF, diagonals $\overline{CE}$ and $\overline{DF}$ intersect at G. Then ∠GCD ≠



(i) ∠DEG (ii) ∠GEF (iii) ∠FCG (iv) ∠CGF

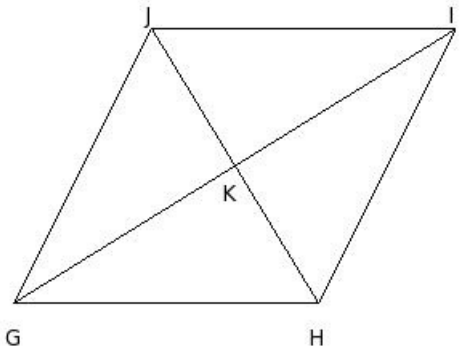
17. Sum of the interior angles in a quadrilateral is

(i) 365° (ii) 375° (iii) 360° (iv) 370° (v) 390°

18. How many diagonals does a nonagon have?

(i) 24 (ii) 30 (iii) 28 (iv) 26 (v) 27

19. In rhombus GHIJ, diagonals $\overline{GI}$ and $\overline{HJ}$ intersect at K. Then $\angle HIK \neq$

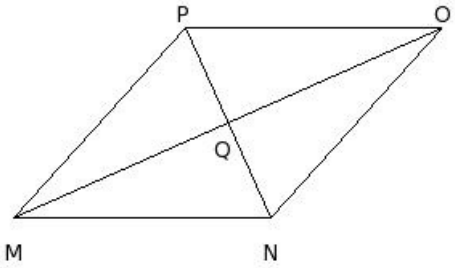


(i) ∠JGK (ii) ∠KGH (iii) ∠GKJ (iv) ∠KIJ

20. Which of the following is a regular polygon with four sides?

(i) square (ii) rhombus (iii) rectangle (iv) trapezium (v) parallelogram

21. In rhombus MNOP, diagonals $\overline{MO}$ and $\overline{NP}$ intersect at Q. Then $\angle MQP \neq$



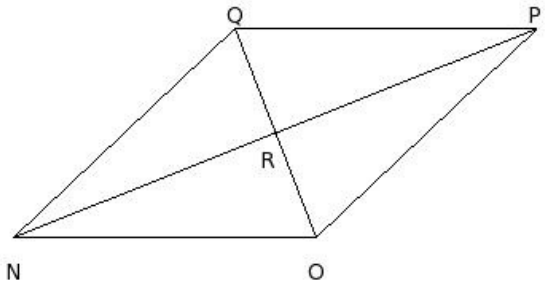
(i) ∠NQM (ii) ∠PQO (iii) ∠PMN (iv) ∠OQN

22. Which of the following properties apply for a trapezium ?

(i) Both adjacent angles are obtuse (ii) Diagonals are perpendicular to each other (iii) Diagonals are equal

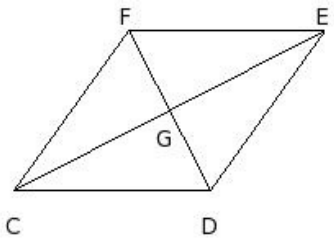
(iv) One pair of opposite sides are parallel (v) Adjacent angles are supplementary

23. In rhombus NOPQ, diagonals $\overline{NP}$ and $\overline{OQ}$ intersect at R. Then $\angle QNO =$



(i) ∠NOR (ii) ∠NOP (iii) ∠PQN (iv) ∠OPQ

24. In rhombus CDEF, diagonals $\overline{CE}$ and $\overline{DF}$ intersect at G. Then $\overline{DE} \parallel$



(i) $\overline{FC}$ (ii) $\overline{DF}$ (iii) $\overline{EF}$ (iv) $\overline{CD}$

25. Which of the following statements are true?

a) A parallelogram is a trapezium
b) The set of parallelograms is a subset of the set of trapeziums
c) All quadrilaterals are parallelograms
d) All trapeziums are parallelograms
e) All quadrilaterals are trapeziums

(i) {a,b} (ii) {d,b} (iii) {d,b,a} (iv) {e,c,a} (v) {c,a}

Assignment Key

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