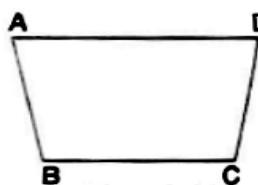


1. In a quadrilateral ABCD,  $\angle A + \angle C$  is 2 times  $\angle B + \angle D$ . If  $\angle A = 140^\circ$  and  $\angle D = 60^\circ$ , then  $\angle B =$ 
  - (a)  $60^\circ$
  - (b)  $80^\circ$
  - (c)  $120^\circ$
  - (d) None of these
2. If an angle of a parallelogram is two-third of its adjacent angle, the smallest angle of the parallelogram is
  - (a)  $108^\circ$
  - (b)  $54^\circ$
  - (c)  $72^\circ$
  - (d)  $81^\circ$
3. In a rhombus A B C D, if  $\angle ACB = 40^\circ$ , then  $\angle ADB =$ 
  - (a)  $70^\circ$
  - (b)  $45^\circ$
  - (c)  $50^\circ$
  - (d)  $60^\circ$
4. The diagonals of a parallelogram A B C D intersect at O. If  $\angle BOC = 90^\circ$  and  $\angle BDC = 50^\circ$ , then  $\angle OAB =$ 
  - (a)  $40^\circ$
  - (b)  $50^\circ$
  - (c)  $10^\circ$
  - (d)  $90^\circ$
5. The figure formed by joining the mid-points of the adjacent sides of a rhombus is a
  - (a) square
  - (b) rectangle
  - (c) trapezium
  - (d) none of these
6. If one angle of a parallelogram is  $24^\circ$  less than twice the smallest angle, then the measure of the largest angle of the parallelogram is
7. A diagonal of a rectangle is inclined to one side of the rectangle at  $25^\circ$ . The acute angle between the diagonals is
  - (a)  $55^\circ$
  - (b)  $50^\circ$
  - (c)  $40^\circ$
  - (d)  $25^\circ$
8. ABCD is a rhombus such that  $\angle ACB = 40^\circ$ . Then,  $\angle ADB =$ 
  - (a)  $40^\circ$
  - (b)  $45^\circ$
  - (c)  $50^\circ$
  - (d)  $60^\circ$
9. The diagonals A C and B D of a parallelogram A B C D intersect each other at O such that  $\angle DAC = 30^\circ$  and  $\angle AOB = 70^\circ$ . Then,  $\angle DBC =$ 
  - (a)  $40^\circ$
  - (b)  $35^\circ$
  - (c)  $45^\circ$
  - (d)  $50^\circ$
10. If one angle of a parallelogram is  $24^\circ$  less than twice the smallest angle, then the largest angle of the parallelogram is
  - (a)  $68^\circ$
  - (b)  $102^\circ$
  - (c)  $112^\circ$
  - (d)  $136^\circ$
11. The bisectors of any two adjacent angles of parallelogram intersect at
  - (a)  $30^\circ$
  - (b)  $45^\circ$
  - (c)  $60^\circ$
  - (d)  $90^\circ$
12. Three angles of a quadrilateral are  $75^\circ, 90^\circ$  and  $75^\circ$ . The fourth angle is
  - (a)  $90^\circ$
  - (b)  $95^\circ$
  - (c)  $105^\circ$
  - (d)  $120^\circ$
13. In a parallelogram A B C D, if  $\angle A = (2x + 25)^\circ$  and  $\angle B = (3x - 5)^\circ$ , then  $x =$ 
  - (a)  $30^\circ$
  - (b)  $42^\circ$
  - (c)  $24^\circ$
  - (d)  $32^\circ$
14. If angles A, B, C and D of the quadrilateral ABCD, taken in order, are in the ratio  $3 : 7 : 6 : 4$ , then ABCD is a



- (a) rhombus
- (b) parallelogram
- (c) trapezium
- (d) kite

