

Angles Ex 11.2 Q7

Answer:

In one turn, the wheel of a bicycle covers 360°.

If we express 360° in right angles, we get:

$$\frac{360^{\circ}}{90^{\circ}}$$
 = 4 right angles

Thus, in four and a half turns, the wheel will turn by $(4 \times 4.5) = 18$ right angles

Angles Ex 11.2 Q8

Answer:

The time interval between 8:00 O'clock and 10:30 O'clock is 2.5 hours, i.e., two and a half hours.

In 1 hour, the minute hand turns by a complete angle, i.e., 360° or $360^{\circ}/90^{\circ} = 4$ right angles.

Thus, in 2.5 hours, the minute hand will turn by $2.5 \times 4 = 10$ right angles.

Angles Ex 11.2 Q9

Answer:

In a bicycle, the central angle measures 360° and it consists of 48 spokes.

∴ Angle between any two adjacent spokes = $\frac{360}{48}$ = 7.5°

Angles Ex 11.2 Q10

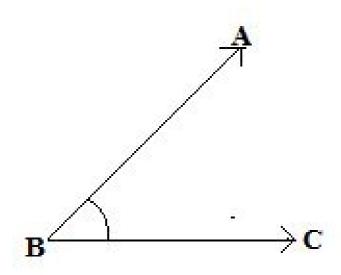
Answer:

An acute angle measures between 0° and 90° ; an obtuse angle measures between 90° and 180° ; a straight angle measures 180° ; a right angle measures 90° ; a zero angle measures 0° and a complete angle measures 360° .

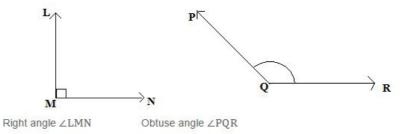
- (i) 118° is an obtuse angle.
- (ii) 29° is an acute angle.
- (iii) 145° is an obtuse angle.
- (iv) 165° is an obtuse angle.
- (v) 0° is a zero angle.
- (vi) 75° is an acute angle.
- (vii) 180° is a straight angle.
- (viii) 89.5° is an acute angle.
- (ix) 30° is an acute angle.
- (x) 90° is a right angle.
- (xi) 179° is an obtuse angle.
- (xii) 360° is a complete angle.
- (xiii) $90\frac{1}{2}$ ° is an obtuse angle.

Angles Ex 11.2 Q11

Answer:



Acute angle ∠ABC



Angles Ex 11.2 Q12

Answer:

- (i) East and west directions form an angle of 180°, which is a straight angle.
- (ii) East and north directions form an angle of 90°, which is a right angle.
- (iii) North and north-east directions form an angle of 45°, which is an acute angle.
- (iv) North and south-east directions form an angle of 135°, which is an obtuse angle.

Angles Ex 11.2 Q13

Answer:

- (i) Acute angle, as it measures between 0° and 90°.
- (ii) Obtuse angle, as it measures between 90° and 180°.
- (iii) Straight angle, as it is equal to 180°.
- (iv) Right angle, as it is equal to 90°.
- (v) Complete angle, as it is equal to 360°.

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