ANGLES

13

Q1. What fraction of a turn does the hour hand move from 2:00 p.m. to 4:00 p.m.?

Answer: _____

Q2. What is the angle and reflex angle between the hands of a clock at 5 o' clock?

Answer: Measure of angle: _____
Measure of reflex angle: _____

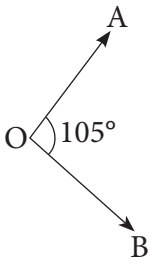
Q3. Express the angle in degrees representing $\frac{3}{5}$ turn of the hour hand of the clock.

Answer: _____

Q4. Express 78° in seconds.

Answer: _____

Q5. Rajan is standing at point O and moving in the OA direction. If he has to turn anti-clock wise and move in the direction of ray OB, by how many degrees should he turn?



Answer: _____

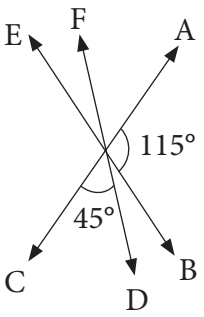
Q6. What would be the sum of an acute angle and its corresponding reflex angle?

Answer: _____

Q7. An angle ∠XYZ measures thrice of ∠PQR. If the measure of ∠PQR = 30° 25' 2" then find the measure of ∠XYZ.

Answer: _____

Q8. In the given figure, lines $\overleftrightarrow{AC}$, $\overleftrightarrow{BE}$ and $\overleftrightarrow{DF}$ intersect at O. Find the measure of all the unknown angles.



Answer: ∠BOD = _____°
∠EOF = _____°
∠AOF = _____°
∠EOC = _____°

Q9. The measure of an angle is 54° 24' 32". Find the measure of its complement.

Answer: _____

Q10. An angle is $\frac{1}{5}$ of a right angle. Find the measure of its supplementary angle.

Answer: _____

ANSWERS

1. $\frac{1}{6}$ turn
2. Measure of angle: 150°, Measure of reflex angle: 210°
3. 216°
4. 2,80,800 seconds
5. 255°
6. 360°
7. 91° 15’ 6”
8. ∠BOD=20°, ∠EOF=20°, ∠AOF = 45°, ∠EOC = 115°
9. 35° 35’28”
10. 162°