

21/3/10/21

PAGE NO.

DATE: / /

Maths Test
Lines and Angles I.

Q1. At 5:20 - - - - - is?

Ans. (c) Acute Angle.

Q2. An angle - - - - - is?

Ans. (B) 52° .

Q3. Find the - - - - - pair?

Ans. (A) 29°

Q4. These angles - - - - - angles.

Ans. Let the angle be x and $\angle AOD$ and $\angle DOB = 180^\circ$.

$$\angle AOD + \angle DOB = 180^\circ, \quad \angle AOD + \angle DOB = 180^\circ$$

2:3:7.

$\angle AOD$

Here, $2x, 3x$ and $7x$

$$\Rightarrow \text{So, } 2x + 3x + 7x = 180^\circ$$

$$\begin{aligned} &= 12x = 180^\circ \\ &= 15x \end{aligned}$$

$$\begin{aligned} \# \quad 2 \times 15 &= 30 & \quad \cancel{3 \times 15} &= \cancel{45} \\ & & \quad \cancel{7 \times 15} &= \cancel{105} \\ 3 \times 15 &= 45 \\ 7 \times 15 &= 105 \end{aligned}$$

$$\Rightarrow \text{Angles are } = 30^\circ, 45^\circ, 105^\circ$$

Q.5. Two angles _____ angles?

Ans. ~~the~~ the angle be 26° and its complementary be $90 - 26$.

$$\text{A.T.Q : } 90 - 26 = \cancel{64}$$

$$= 74.$$

The angles are 74 and 26 are complementary angles.

Q7. In the  x ?

Ans. As angle DOE and AOB are vertically opposite angle Hence, $\angle DOE = \angle AOB$ and AOF and DOC are vertically opposite angle. Hence, $\angle AOF = \angle DOC$.

$$= \angle DOE \text{ and } \angle AOB = 6x$$

$$= \angle AOF \text{ and } \angle DOC = 2x$$

$$= \angle COB \text{ and } \angle FOE = 3x$$

$$\angle AOB + \angle DOE + \angle AOF + \angle DOC + \angle COB + \angle FOE = 360^\circ$$

$$= 2(6x + 2x + 3x) = 360^\circ$$

$$= 2(11x) = 360^\circ$$

$$22x = 360^\circ$$

$$= 16$$

$$x = 16$$

Q10. Find the — — — — — each?

i) 78°

$$= x + 78^\circ = 90^\circ$$

$$x = 90 - 78 = 12^\circ$$

ii) 59°

$$= x + 59^\circ = 90^\circ$$

$$x = 90 - 59 = 31^\circ$$

iii) 62°

$$= x + 62^\circ = 90^\circ$$

$$x = 90 - 62 = 28^\circ$$