

PMR MATHEMATICS – ASSESSMENT 1

- 1) The Diagram 1, PTR and QTS are straight lines.

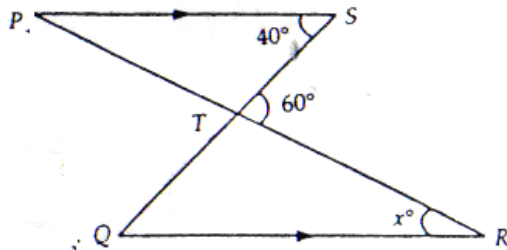


Diagram 1

The value of x is

- A 20 C 80
B 30 D 100

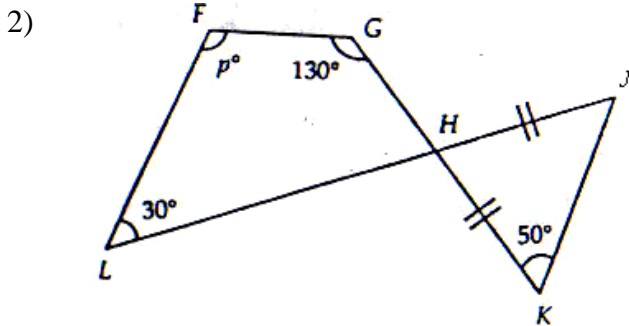


Diagram 2

In Diagram 2, GHK and LHJ are straight lines.
The value of p is

- A 80 C 120
B 100 D 150

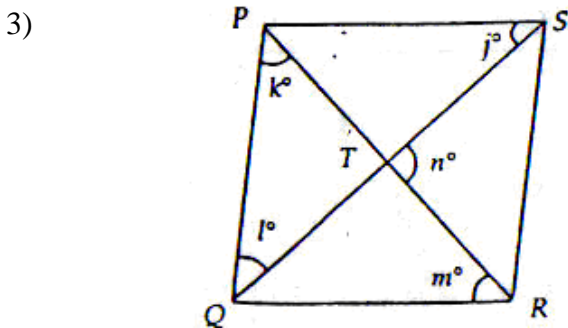


Diagram 9

In Diagram 9, $PQRS$ is a rhombus. PTR and STQ are straight lines. $j + k + l + m + n =$

- A 180 C 360
B 270 D 450

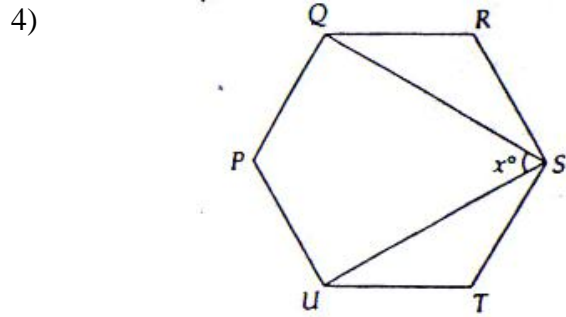


Diagram 11

Diagram 11 is regular hexagon. The value of x is

- A 30 C 90
B 60 D 120

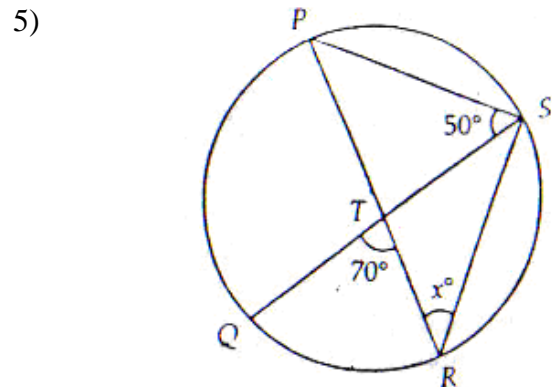


Diagram 4

In Diagram 4, PTR is the diameter of the circle and STQ is a straight line. The value of x is

- A 55 C 35
B 40 D 30

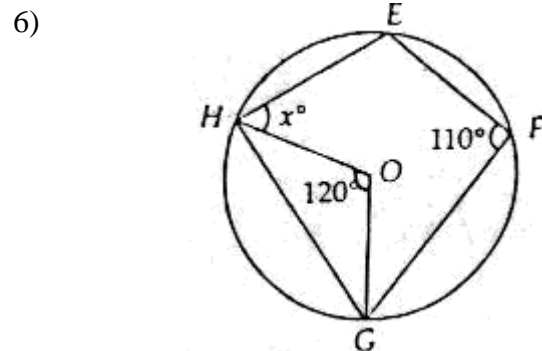


Diagram 7

In the Diagram 7, O is the centre of circle $EFGH$. Find the value of x .

- A 70 C 40
B 60 D 30

7)

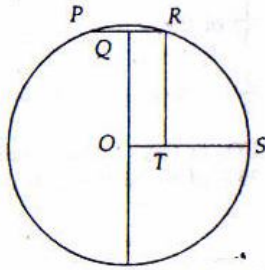


Diagram 17

In the diagram 17, shows a circle PRS with centre O . $OQRT$ is a rectangle and OTS is a straight line. $OQ = 12\text{cm}$ long and perpendicular to the chord PQR . Given the $PR = 10\text{cm}$, find the length of TS , in cm .

- A 8 C 3
B 7 D 2

8)

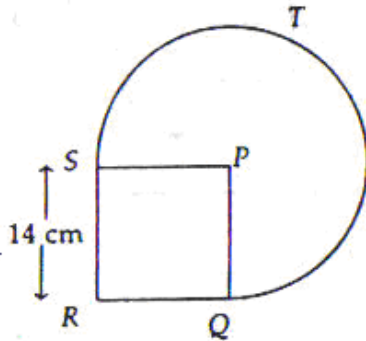


Diagram 21

In the diagram 21, $PQRS$ is a square and STQ is an arc of a circle with centre P . The perimeter of the whole diagram in cm is

(take $\pi = \frac{22}{7}$)

- A 61 C 116
B 94 D 122

9) The median for 4,5,8,4,9 is

- A 4 C 6
B 5 D 8

10)

July	👤👤👤
August	👤👤
September	👤👤👤👤
October	👤👤👤
November	👤👤👤👤👤👤
December	👤👤👤👤

👤 represents 5 students

Diagram 8

The pictogram in diagram 8 shows the number of students whose birthday are in the six months as above. The number of students whose birthdays fall in the months after October is

- A 12 C 60
B 15 D 75

11) The pie chart in Diagram 12 shows the ways used by a group of students to come school.

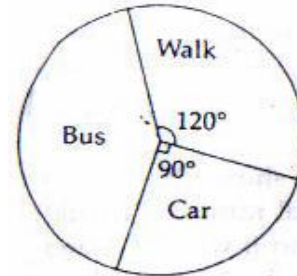


Diagram 12

Which of the following statement about the pie chart is true?

- A $\frac{1}{3}$ of the students walk to school.
B $\frac{1}{9}$ of the students come to school by cars.
C 15 % of the students take buses.
D 30% of the students walk to school.

12) Factorise $6pq + 10qr$

- A $6p + 10r$ B $3pq + 5qr$
C $2q(3p + 5r)$ D $2pq(3+5r)$

13) In order to complete the equation

$$(x + 2y)(2x + 5y) = 2x^2 + [\quad] - 10y^2,$$

[\quad] must be filled with

- A $-xy$ C xy
B $-9xy$ D $9xy$

14) Given that $p = -3$, and $r = -1$. Then

$$\frac{p^2}{r}(6 - p) =$$

- A -81 C 18
B -27 D 54

- 15) The table 1 shows the number of balls in a box.

Colour	Number of Balls
Red	x
Blue	$\frac{1}{2}x$
White	$x - 4$

Table 1

If the total number of balls in the box is y , the equation involving x and y is

A $y = 5x - 2$ C $y = \frac{1}{2}x - 4$

B $y = 5x - 8$ D $y = \frac{5}{2}x - 4$

16) $\frac{2}{3x} - \frac{x-1}{6x} =$

A $\frac{1-x}{2x}$ C $\frac{5-x}{6x}$

B $\frac{-x-1}{3x}$ D $\frac{11-3x}{18x}$