

$U(60)$

$$\begin{aligned}n(U) &= 60 \\n(M) &= 46 \\n(E) &= 42\end{aligned}$$

ii) The sum of the 3 regions =  $U$

$$\begin{aligned}\Rightarrow (46-x) + x + (42-x) &= 60 \\ \Rightarrow 46 - x + x + 42 - x &= 60 \\ \Rightarrow 88 - x &= 60 \\ \Rightarrow x &= 88 - 60, \quad \therefore x = 28\end{aligned}$$

Hence 28 students passed in both subjects.

### Question 2

- Factorise completely  $3a^2 + 2ab - 12ac - 8bc$
- Solve  $\frac{x}{4} + \frac{3}{5} = \frac{3x}{2} - 2$
- Find the solution set of  $x + 3 > 19 - 3x$ , where  $x$  is a real number.  
Illustrate answer on the number line.

### Solution

- $3a^2 + 2ab - 12ac - 8bc = (3a^2 + 2ab) - (12ac + 8bc)$   
 $3a^2 + 2ab - 12ac - 8bc = a(3a + 2b) - 4c(3a + 2b)$   
Factorizing each term separately.  
 $= (3a + 2b)(a - 4c)$

- $\frac{x}{4} + \frac{3}{5} = \frac{3x}{2} - 2$ . Multiplying through by 20  
 $20 \times \frac{x}{4} + 20 \times \frac{3}{5} = 20 \times \frac{3x}{2} - 20 \times 2$   
 $5x + 12 = 30x - 40$  Group like terms  
 $5x - 30 = -40 - 12$  Simplify  
 $-25x = -52$  Divide both side by -25  
 $x = \frac{52}{25}$

- $x + 3 > 19 - 3x$   
 $x + 3x > 19 - 3$   
 $4x > 16 \Rightarrow x > 4$

The solution set of the above inequality is  $\{x : x > 4\}$

On the number line the solution set can be represented as shown below.



### Question 3

- Using a ruler and a pair of compasses only:
  - Construct a triangle  $PQR$  such that  $|PQ| = 6\text{cm}$ ,  $|QR| = 4\text{cm}$  and angle  $PQR = 90^\circ$
  - Construct perpendicular bisectors (mediators) of  $PQ$  and  $QR$ . Name the intersection of the mediators  $O$ .
  - Draw a circle with  $O$  as centre and  $OQ$  as radius.
- Measure i)  $|PR|$  ii) angle  $QPR$

### Solution

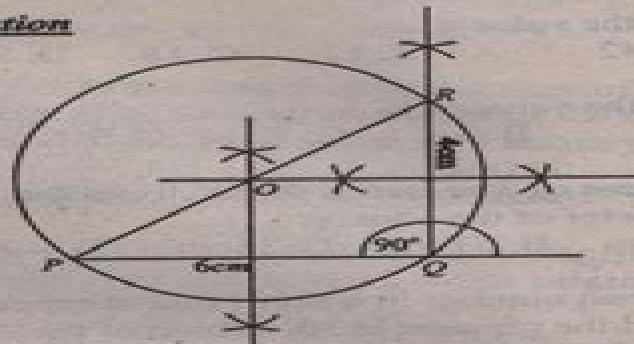


Diagram not drawn to scale

- i) Using your ruler, measure  $|PR| = 7.2\text{ cm}$   
ii) Using your protractor, measure angle  $QPR = 33^\circ$

### Question 4

The following is the result of a survey conducted in a class of a Junior Secondary School to find the favourite soft drink of each pupil in the class.

Soft Drink	Number of pupils preferring soft drink
Coca cola	5
Pepsi cola	3
Pee cola	3
Fanta	3
Muscotella	5
Mirinda	4
Club cola	6
Sprite	3

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