

$U(60)$

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

- ii) The sum of the 3 regions = U
 $\Rightarrow (46 - x) + x + (42 - x) = 60$
 $\Rightarrow 46 - x + x + 42 - x = 60$
 $\Rightarrow 88 - x = 60$
 $\Rightarrow x = 88 - 60, \therefore x = 28$
Hence 28 students passed in both subjects.

Question 2

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

Solution

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

b) $\frac{x}{4} + \frac{3}{5} = \frac{3x}{2} - 2$. 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
 $x = \frac{52}{25}$

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

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

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

Solution

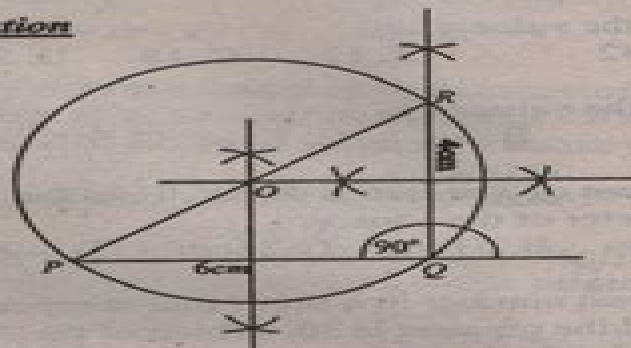


Diagram not drawn to scale

- b) 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 | 6 |
| Pepsi cola | 5 |
| Pee cola | 8 |
| Fanta | 3 |
| Muscattella | 5 |
| Mirinda | 4 |
| Club cola | 6 |
| Sprite | 3 |

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