

$U(60)$

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

- 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

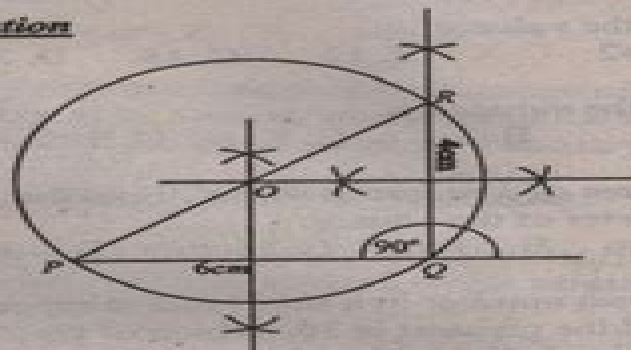


Diagram not drawn to scale

- 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
Muscatella	5
Mirinda	4
Club cola	6
Sprite	3

# Bece Question Papers

**Indiana College Association. Meeting**

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web jan 13 2020 3 describe the 7 different types of quadrilaterals along with diagrams 4 discern the derivative of  $f(x)$  5 fill in the blanks with appropriate numbers x 2 3 dok level 3 connect the highlighted points and calculate the areas of all the triangles rectangles and squares that are possible

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web level 3 strategic thinking requires reasoning planning using evidence and a higher level of thinking than the previous two levels in most instances requiring students to explain their thinking is a level 3 activities that require students to make conjectures are also at this level the cognitive demands at level 3 are complex and abstract

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web dok 3 use information or conceptual knowledge two or more steps etc students have practiced these skills with assistance from kindergarten to second grade and on their own since third grade questions that lie at dok 1 necessitate only memorization and recall and so do not promote

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web if there is a question regarding which of two levels a standard addresses such as level 1 level 2 or level 2 level 3 it is appropriate to assign the highest level as the dok ceiling for the task but also provide opportunities at the lower dok levels as an instructional progression e g summarizing a text dok 2 before

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web the water hammer behavior of the pipeline can be investigated by changing pipeline dimensions number of segments in the pipeline model fluid properties valve closure

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web water hammer matlab this matlab code produced to solve water hammer equation with interaction in reservoir pipe

valve system