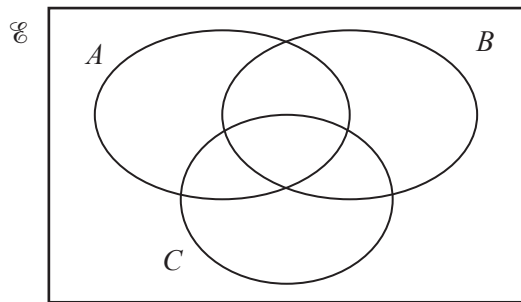


- 15 (a) On the Venn diagram, shade the set $B \cap (A \cup C)'$.



[1]

- (b) $\mathcal{U} = \{ 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 \}$

$$W = \{ x : x \text{ is a multiple of } 2 \}$$

$$H = \{ x : x \text{ is a multiple of } 3 \}$$

- (i) Find $n(W \cup H)$.

- (ii) List the members of $W \cap H$.

Answer [1]

Answer [1]

- 19 All the angles of a polygon are either 155° or 140° .
There are twice as many angles of 155° as 140° .

Find the number of sides of the polygon.

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Answer [3]

22 P is the point $(1, -3)$ and Q is the point $(7, 2)$.

(a) Find the coordinates of the midpoint of PQ .

Answer (..... ,) [1]

(b) Find the gradient of the line PQ .

Answer [1]

(c) The line, L , with equation $2x - 5y = k$, passes through the point Q .

(i) Find the value of k .

Answer $k =$ [1]

(ii) The line $x + Ay = 3$ is parallel to L .

Find the value of A .

Answer $A =$ [1]