

Sets & Venn Diagrams Difficulty: Easy

Question Paper 2

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Торіс	Number
Sub-Topic	Sets & Venn Diagrams
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 2

Time allowed:	30 minutes
Score:	/23
Percentage:	/100

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	А	В	С	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3	
>94%	85%	77%	67%	57%	47%	35%	



 $Q = \{2, 4, 6, 8, 10\}$ and $R = \{5, 10, 15, 20\}$. $15 \in P$, n(P) = 1 and $P \cap Q = \emptyset$.

Label each set and complete the Venn diagram to show this information.







The shaded area in the diagram shows the set $(A \cap C) \cap B'$.

Write down the set shown by the shaded area in each diagram below.





[2]



4

Shade the required regions in the Venn diagrams below.



[2]



Shade the region required in each Venn Diagram.



[2]

Question 5

E = {1,2,3,4,5,6,7,9,11,16}	$P = \{2,3,5,7,11\}$	$S = \{1, 4, 9, 16\}$	$M = \{3, 6, 9\}$
(a) Draw a Venn diagram to sh	ow this information		[2]

(a) Draw a Venn diagram to show this information.

(b) Write down the value of $n(M' \cap P)$.

[1]



On the Venn diagrams shade the regions



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Question 7

(a) Shade the region $A \cap B$.



[1]

(b) Shade the region $(A \cup B)'$.



[1]





[1]



 $n(\mathscr{C}) = 21$, $n(A \cup B) = 19$, $n(A \cap B') = 8$ and n(A) = 12. Complete the Venn diagram to show this information.



[3]



- $\mathscr{E} = \{40, 41, 42, 43, 44, 45, 46, 47, 48, 49\}$
- $A = \{\text{prime numbers}\}$
- $B = \{ \text{odd numbers} \}$

(a) Place the 10 numbers in the correct places on the Venn diagram.



(b) State the value of $n(B \cap A')$.

[1]

[2]