SETS-SET-1

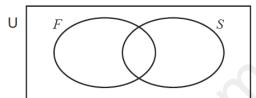
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Sara records some information about the number of cars in a car park.

 $U = \{cars in the car park\}$

 $F = \{5\text{-door cars}\}$

 $S = \{\text{silver cars}\}\$



You may use the Venn diagram to help you answer the following questions.

(a)
$$n(U) = 12$$
, $n(F) = 7$, $n(F \cap S) = 2$, $n(F \cup S) = 11$.

Find

(i) n(S),

Answer(a)(i) [1]

(ii) $n(S \cup F')$.

Answer(a)(ii) [1]

(b) Sara chooses a car from the car park at random.

Find the probability that it is a 5-door car.

Answer(b) _____ [1]

(c) Sara chooses a silver car at random.

Find the probability that it is a 5-door car.

Answer(c) [1]

MS-1

- (a) (i) 6
 - (ii) 7
- **(b)** $\frac{7}{12}$ o
- (c) $\frac{2}{6}$ oe

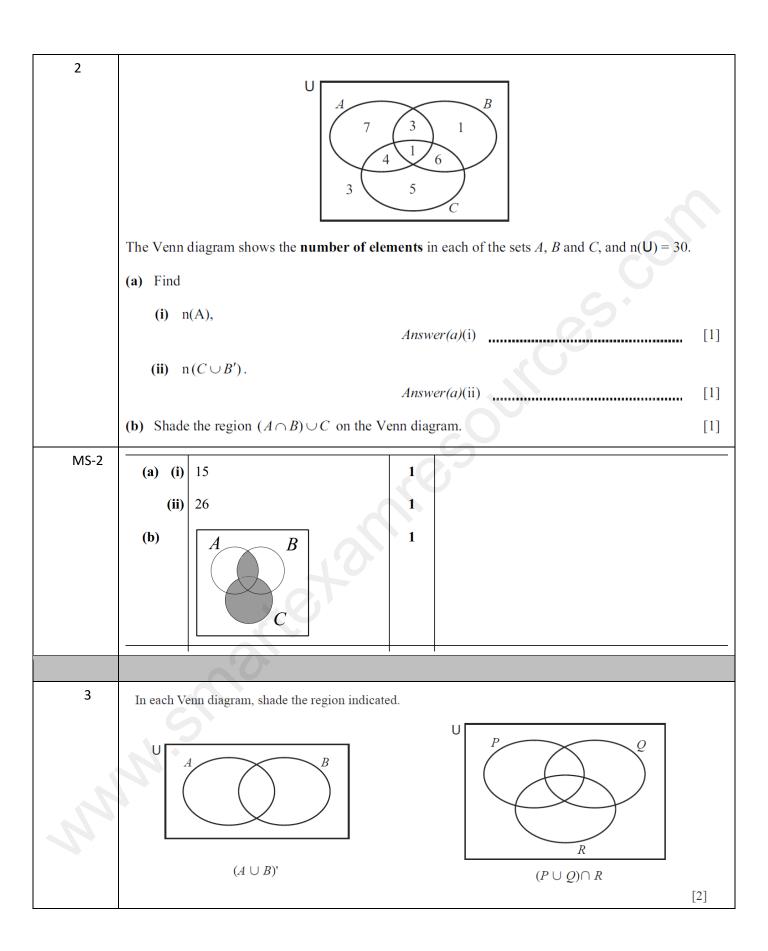
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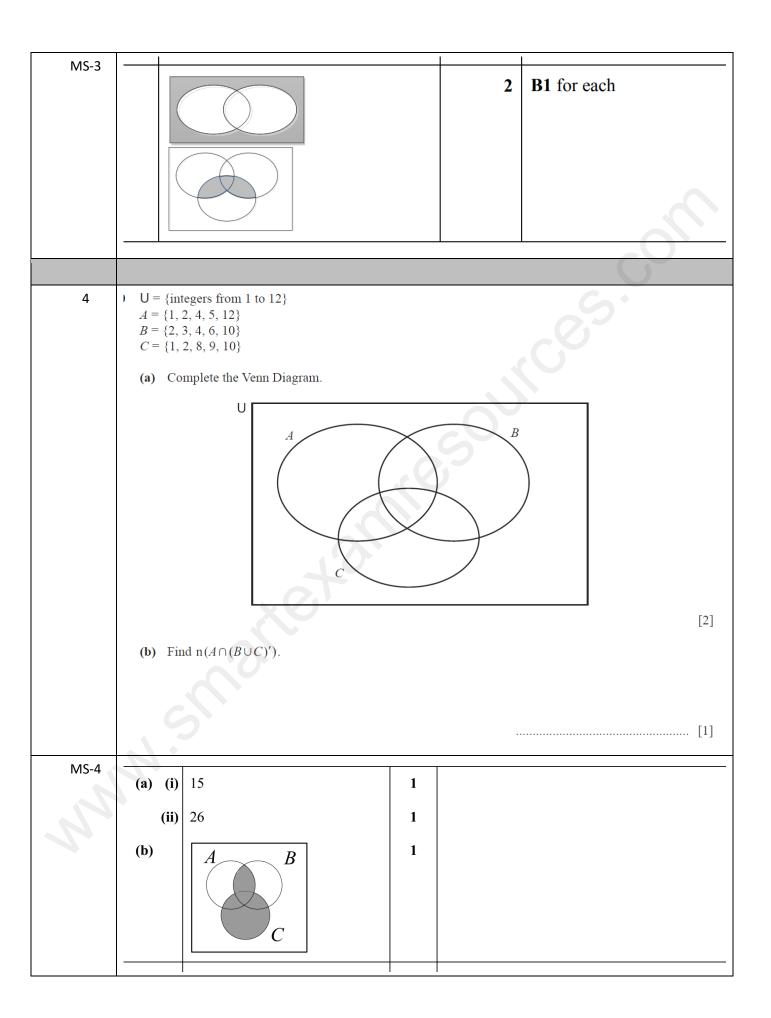
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1 ft If $\frac{2}{6}$ not seen, then ft their part (a)(i)

[4]





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