WORKSHEET

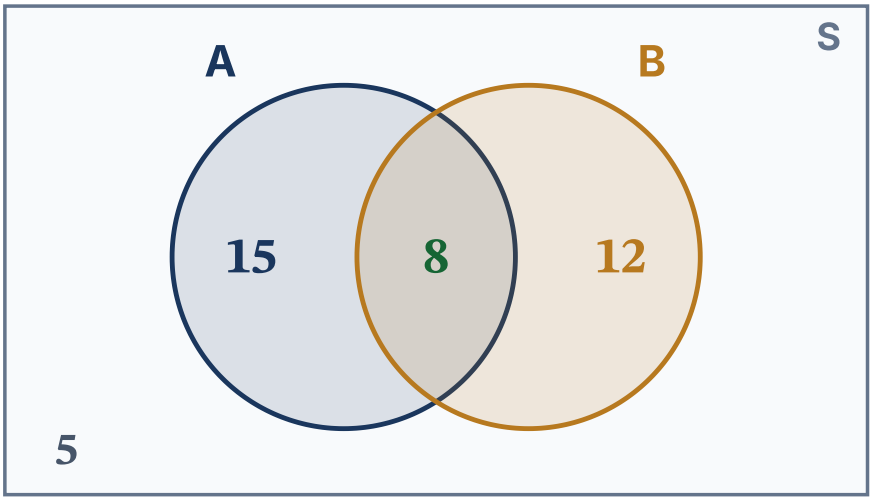
Name: ..... Class: .....

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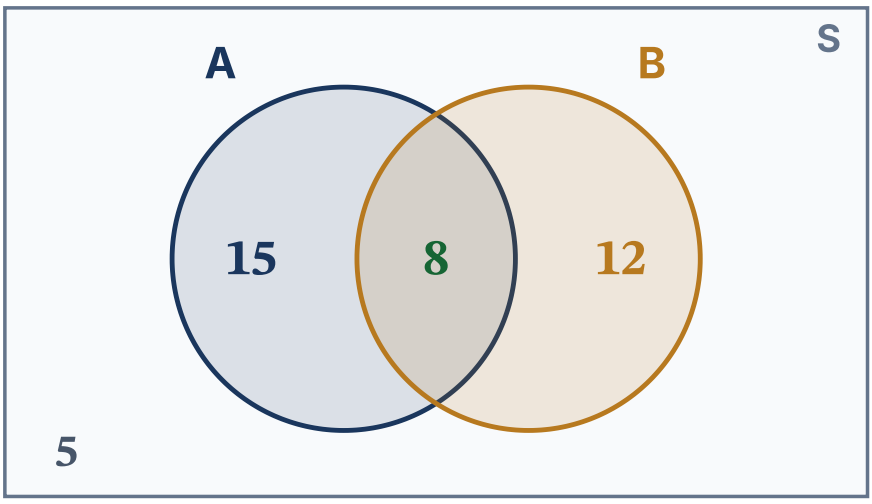
MARK ____ / 24

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

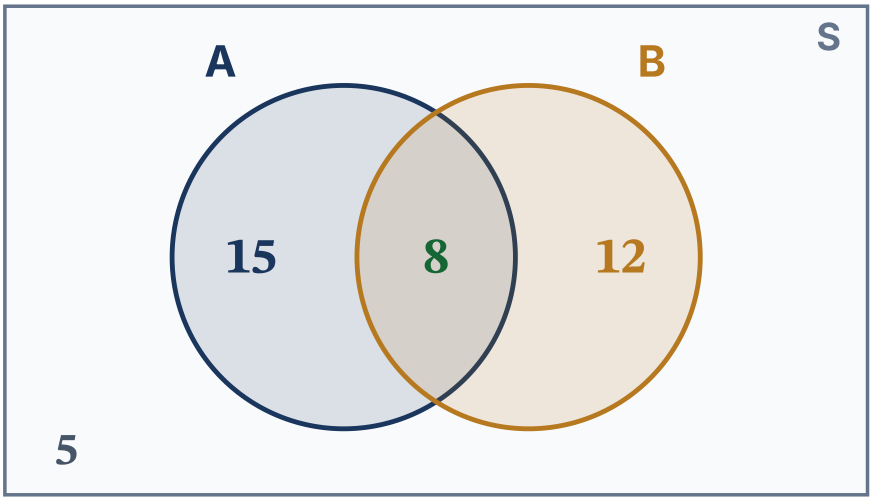
1 In the Venn diagram below, 40 learners were surveyed. Determine $n(\text{A})$. (2)



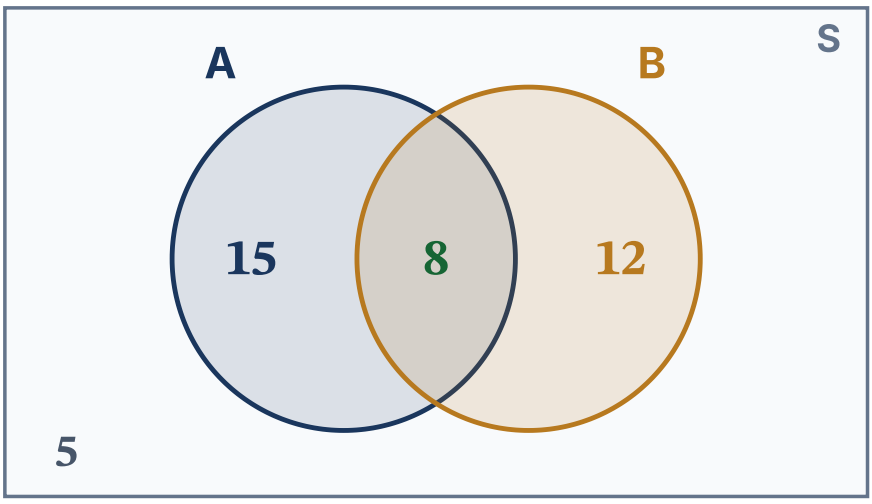
2 Using the Venn diagram below, calculate P(A and B). (2)



3 Using the Venn diagram below, calculate P(A or B). (2)



4 Using the Venn diagram below, calculate the probability that a learner takes neither A nor B. (2)



5 P(A) $= 0{,}4$, P(B) $= 0{,}5$ and P(A and B) $= 0{,}2$. Are A and B independent? Show your working. (3)

6 P(A) $= 0{,}3$, P(B) $= 0{,}45$ and A and B are mutually exclusive. Calculate P(A or B). (2)

7 If P(A) $= 0{,}62$, calculate P(not A). (1)

8 Explain the difference between mutually exclusive and complementary events. **(2)**

9 A coin is tossed 400 times and lands heads 214 times. Calculate the relative frequency of heads and comment on whether the coin appears fair. **(2)**

10 In a class of 40: 22 play soccer, 18 play netball, 15 play tennis; 9 play soccer and netball, 7 play soccer and tennis, 6 play netball and tennis, and 4 play all three. How many play none of the three? **(4)**

11 Explain why you must fill a three-event Venn diagram from the CENTRE outwards. **(2)**

TOTAL: 24 marks

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