

## Worksheet: Sets

IB · Class 11 · Mathematics · 3 questions · 11 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 11

**Q1.** If  $A = \{a, b, c\}$ , write the power set  $P(A)$  and state its cardinality. [2 marks]

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**Q2.** In a class of 60 students, 35 play cricket, 28 play football, and 15 play both. How many students play neither sport? [4 marks]

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**Q3.** If  $U = \{1,2,3,4,5,6,7,8\}$ ,  $A = \{1,3,5,7\}$ ,  $B = \{2,3,4,5\}$ , verify De Morgan's law:  $(A \cap B)' = A' \cup B'$ . [5 marks]

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