

Name:

Class/Set:

# Venn Diagrams 2

Malvern College

For each question, list  $A'$  and  $B'$ , draw the Venn diagram, list the required set and shade that region on the Venn diagram

1: If  $Q = \{a, b, e, g, i\}$ ,  $R = \{a, g, i\}$  and  $\mathcal{E} = \{a, b, \dots, i\}$ , find:

$$Q \cap R$$

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2: If  $U = \{a, b, c\}$ ,  $V = \{a, b, d\}$  and  $\mathcal{E} = \{a, b, \dots, e\}$ , find:

$$U' \cap V$$

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3: If  $Y = \{1, 2, 3, 4, 7, 9\}$ ,  $Z = \{5, 6\}$  and  $\mathcal{E} = \{1, 2, \dots, 12\}$ , find:

$$Y \cup Z$$

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4: If  $K = \{1, 3, 5, 6, 8, 10\}$ ,  $L = \{1, 3, 5, 8, 10\}$  and  $\mathcal{E} = \{1, 2, \dots, 10\}$ , find:

$$(K \cap L)'$$

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5: If  $E = \{h\}$ ,  $F = \{a, b, g, h\}$  and  $\mathcal{E} = \{a, b, \dots, h\}$ , find:

$$E'$$

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6: If  $J = \{a, e, f, h, j, k\}$ ,  $K = \{a, c, d, h, k\}$  and  $\mathcal{E} = \{a, b, \dots, k\}$ , find:

$$J' \cup K'$$

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7: If  $X = \{1, 4, 6\}$ ,  $Y = \{4, 6\}$  and  $\mathcal{E} = \{1, 2, \dots, 6\}$ , find:

$$X' \cap Y'$$

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8: If  $C = \{1, 2, 5\}$ ,  $D = \{1, 4, 7\}$  and  $\mathcal{E} = \{1, 2, \dots, 7\}$ , find:

$$C \cap D'$$

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