5.6 Venn Diagrams and Set Notation: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 In a class of 42 pupils, 19 play French, 21 play Spanish and 4 play both French and Spanish.
One pupil is chosen at random. Work out the probability that the pupil plays neither French nor Spanish.

(4)

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2 In a class of 39 pupils, 13 play French, 27 play Spanish and 3 play both French and Spanish.
One pupil is chosen at random. Work out the probability that the pupil plays both French and Spanish.

(2)

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3 The universal set is the whole numbers from 1 to 15. Set A = {1, 3, 9, 10, 13} and set B = {1, 8, 10, 14, 15}.
List the numbers that are in both A and B.

(2)

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Mark scheme · 5.6 Venn Diagrams and Set Notation: 10-minute Pack

Question 1

15 French only, 17 Spanish only, 4 both	**M1**
36 play at least one	**M1**
42 - 36	**M1**
1/7 cao	**A1**

Answer: **1/7**

Question 2

3/39	**M1**
1/13 cao	**A1**

Answer: **1/13**

Question 3

at least one correct number or a clear method	**M1**
1, 10 cao	**A1**

Answer: **1, 10**

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