5.2 Probability Scale and Simple Events: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Sam spins a spinner with 10 equal parts labelled 1 to 10. What is the probability of spinning a number less than 4? Give your answer as a fraction and decimal.

(2)

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2 A small pack contains only the cards A, B, C, D. A card is chosen at random. What is the probability of choosing a vowel? (Assume only letters shown.) Then give the probability of choosing a consonant.

(2)

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3 A bag contains 4 white, 3 black and 3 blue counters. Two counters are drawn one after the other without replacement. Work out the probability both are black. Give your answer as a fraction and as a decimal rounded to 3 decimal places.

(3)

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4 A spinner can land on red, blue or green. The probability of red is 0.08 and the probability of blue is 0.2. Work out the probability of green.

(2)

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Mark scheme · 5.2 Probability Scale and Simple Events: 10-minute Pack

Question 1

numbers less than 4 are 1,2,3 so 3/10	**M1**
3/10 and 0.3 cao	**A1**

Answer: **3/10, 0.3**

Question 2

identify vowels among A,B,C,D: only A so 1/4	**M1**
vowel 1/4; consonant 3/4 cao	**A1**

Answer: **1/4; 3/4**

Question 3

first black 3/10 and then 2/9 for second identified	**M1**
multiply probabilities: 3/10 x 2/9 = 6/90 = 1/15	**M1**
1/15 and 0.067 cao rounded to 3 dp	**A1**

Answer: **1/15, 0.067**

Question 4

1 - 0.08 - 0.2 or 1 - 0.28	**M1**
0.72 cao	**A1**

Answer: **0.72**

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