
Question 1

- (a) (a fraction less than 1, with denominator 100); $16/100$ (oe)
(b) " $16/100$ " $\times 25\ 000$; $= 4000$
(c) 75×192 {= 14 400}
 $[25\ 000 - 75 \times 192] \div 50$; $= 212$

Notes:

- (a) M1 (for a fraction less than 1, with denominator 100);
A1 cao
(b) M1 (provided that their (a) is < 1)
A1 ft
(If no working, give B2 ft for (a) $\times 25\ 000$, provided (a) < 1)
(c) M1
M1
A1 cao

Question 2

- (i) $\frac{4}{24}$ or equivalent
(ii) $\frac{6}{24}$ or equivalent

Question 3

- (i) 0.0081
(ii) 0.1638

Question 4

(a) Complete tree diagram

(b) 0.36 or $\frac{9}{25}$

(c) 0.48 or $\frac{12}{25}$

Question 5

(a) 96%

(b) $\frac{1}{33}$

Question 6

(a) Correct probability tree

(b) 0.42

Question 7

(a) 0.8, 0.4, 0.6, 0.4

(b) 0.12 oe

Question 8

160

Question 9

(a) 0.7,
0.7, 0.3, 0.7

(b) 0.51 oe

Question 10

$\frac{660}{1000}$ oe

Question 11

(a) $\frac{42g}{8}$

(b) cf

(c) 0.0128

Question 12

$$\frac{660}{1000} \text{ oe}$$

Question 13

(a) No, as you would expect about 100. Yes, as it is possible to get 200 sixes with a fair dice

(b) $\frac{1}{6}, \frac{5}{6}$ $\frac{1}{6}, \frac{5}{6}, \frac{1}{6}, \frac{5}{6}$

(c) (i) $\frac{1}{36}$
(ii) $\frac{11}{36}$

Question 14

No

Question 15

- (a) 0.4
(b) 0.09

Question 16

- (a) Left HS $\frac{4}{10}, \frac{6}{10}$ Right HS $\frac{3}{9}, \frac{6}{9}, \frac{4}{9}, \frac{5}{9}$
(b) $\frac{30}{90}$ oe
(c) $\frac{42}{90}$ oe

Question 17

- (a) 0.0064
(b) 0.1472

Question 18

Pupils' own answers

Question 19

(a) LHS 0.3 RHS 0.6, 0.4, 0.6, 0.4

(b) (i) 0.42 oe
(ii) 0.54 oe

(c) 116

Question 20

Pupils' own answers