
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