

Revision Exercise (Probability)

1.

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|---------------------|---------------------|------------------------|----------------------|------------------------|
| (i) $\frac{1}{13}$ | (iv) $\frac{1}{26}$ | (vii) $\frac{3}{4}$ | (x) $\frac{7}{26}$ | (xiii) $\frac{10}{13}$ |
| (ii) $\frac{1}{52}$ | (v) $\frac{1}{2}$ | (viii) $\frac{51}{52}$ | (xi) $\frac{19}{26}$ | (xiv) $\frac{4}{13}$ |
| (iii) $\frac{1}{4}$ | (vi) $\frac{2}{13}$ | (ix) $\frac{1}{2}$ | (xii) $\frac{3}{13}$ | (xv) $\frac{5}{13}$ |

2.

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|---------------------|---------------------|-----------------------|
| (i) $\frac{12}{47}$ | (ii) $\frac{3}{47}$ | (iii) $\frac{15}{47}$ |
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3.

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|--------------------|----------------------|---------------------|-----------------------|--------------------|----------------------|
| (i) $\frac{2}{5}$ | (iii) $\frac{9}{20}$ | (v) $\frac{3}{10}$ | (vii) $\frac{1}{10}$ | (ix) $\frac{1}{5}$ | (xi) $\frac{1}{5}$ |
| (ii) $\frac{1}{2}$ | (iv) $\frac{3}{10}$ | (vi) $\frac{3}{20}$ | (viii) $\frac{9}{10}$ | (x) $\frac{3}{5}$ | (xii) $\frac{3}{10}$ |

4. a) (i) $\frac{2}{5}$ (ii) $\frac{4}{5}$

4. b) (i) $\frac{3}{8}$ (ii) $\frac{5}{12}$ (iii) $\frac{5}{24}$ (iv) $\frac{5}{8}$

5.

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|--------------------|--------------------|---------------------|--------------------|
| (i) $\frac{7}{18}$ | (ii) $\frac{4}{9}$ | (iii) $\frac{1}{9}$ | (iv) $\frac{2}{9}$ |
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6.

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|-------------------|--------------------|---------------------|---------------------|
| (i) $\frac{1}{4}$ | (ii) $\frac{1}{4}$ | (iii) $\frac{4}{5}$ | (iv) $\frac{3}{10}$ |
|-------------------|--------------------|---------------------|---------------------|

7.

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|--------------------|---------------------|----------------------|
| (i) $\frac{3}{11}$ | (ii) $\frac{2}{11}$ | (iii) $\frac{4}{11}$ |
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8.

$$P(A) = \frac{8}{15} \qquad P(B) = \frac{4}{15} \qquad P(C) = \frac{2}{15} \qquad P(D) = \frac{1}{15}$$

9.

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|-----------------------|--------------------|-----------------------|--------------------|
| (i) $\frac{1}{2}$ | (iv) $\frac{2}{3}$ | (vii) $\frac{5}{12}$ | (x) $\frac{7}{12}$ |
| (ii) $\frac{1}{6}$ | (v) $\frac{7}{30}$ | (viii) $\frac{8}{15}$ | |
| (iii) $\frac{11}{15}$ | (vi) $\frac{5}{6}$ | (ix) $\frac{4}{9}$ | |

10.

(ii) $\frac{21}{40}$

(iii) $\frac{7}{40}$

(iv) a) $\frac{1}{120}$

b) $\frac{1}{120}$

c) $\frac{1}{30}$

d) $\frac{1}{20}$

11.

(ii) a) $\frac{1}{6}$

b) $\frac{1}{2}$

c) $\frac{1}{6}$

12.

(ii) a) $\frac{1}{6}$

b) $\frac{1}{2}$

c) $\frac{1}{3}$

13.

(ii) $\frac{3}{4}$

(iii) $\frac{4}{5}$

(iv) $\frac{2}{5}$

14.

(ii) a) $\frac{131}{200}$

b) $\frac{5}{23}$