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1. Certain
2. Impossible
3. Unlikely
4. Likely
5. Even chance
6. Even chance
7. Likely
8. Possible
9. Even chance
10. Likely
11. Possible
12. Impossible
13. Possible
14. Certain
15. Possible

Maths Fact: (i) $\frac{1}{4}$
(ii) 0.25

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1.
 - (a) possible
 - (b) impossible
 - (c) even chance
 - (d) possible
 - (e) certain
 - (f) possible

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Maths Fact 1: 110
Maths Fact 2: 45,000

- (g) likely
- (h) impossible
- (i) likely
- (j) impossible

2.

- (a) 5
- (b) 3
- (c) 4
- (d) 7
- (e) 6
- (f) 25

3.

- (b) 5 out of 25 or $\frac{1}{5}$
- (c) 7 out of 25 or $\frac{7}{25}$
- (d) 6 out of 25 or $\frac{6}{25}$
- (e) 3 out of 25 or $\frac{3}{25}$
- (f) no chance
- (g) 10 out of 25 or $\frac{2}{5}$
- (h) 9 out of 25 or $\frac{9}{25}$
- (i) 10 out of 25 or $\frac{2}{5}$
- (j) 12 out of 25 or $\frac{12}{25}$
- (k) 16 out of 25 or $\frac{16}{25}$

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- (a) 2:5 or $\frac{2}{5}$
- (b) 4:5 or $\frac{4}{5}$
- (c) 3:5 or $\frac{3}{5}$
- (d) 1:5 or $\frac{1}{5}$
- (e) no
- (f) 3:5 or $\frac{3}{5}$
- (g) Yes

2.

- (a) 1:7 or $\frac{1}{7}$
- (b) 1:7 or $\frac{1}{7}$
- (c) 2:7 or $\frac{2}{7}$
- (d) 3:7 or $\frac{3}{7}$
- (e) 5:7 or $\frac{5}{7}$
- (f) no
- (g) 6:7 or $\frac{6}{7}$

3.

- (a) 3:10 or $\frac{3}{10}$
- (b) 5:10 or $\frac{1}{2}$
- (c) 5:10 or $\frac{1}{2}$
- (d) 7:10 or $\frac{7}{10}$
- (e) yes
- (f) $\frac{5}{10}$ or $\frac{1}{2}$

4.

- (a) 1:10 or 10%
- (b) 1:2 or 50%
- (c) 1:2 or 50%
- (d) 1:5 or 20%
- (e) 1:2 or 50%

Maths Fact: (a) 4
(b) 20

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- (a) 3:6 or 50%
- (b) 3:6 or 50%
- (c) zero
- (d) $\frac{3}{6}$ or 50%
- (e) $\frac{2}{6}$ or 33%
- (f) $\frac{3}{6}$ or 50%

3.

- (a) 1 in 12 or $\frac{1}{12}$
- (b) 3 in 12 or $\frac{3}{12}$ or 25%
- (c) 2 in 12 or $\frac{3}{12}$ or $\frac{1}{6}$
- (d) 2 in 12 or $\frac{2}{12}$ or $\frac{1}{6}$
- (e) 2 in 12 or $\frac{1}{6}$
- (f) 1 in 12 or $\frac{1}{12}$
- (g) 4 in 12 or $\frac{4}{12}$ or $\frac{1}{3}$
- (h) 2 in 12 or $\frac{2}{12} = \frac{1}{6}$
- (i) 4 in 12 or $\frac{4}{12} = \frac{1}{3}$
- (j) 5 in 12 or $\frac{5}{12}$

Maths Fact: 50

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1.

(a) 1:10 or 10%

(b) 1:5 or 20%

(c) 3:20 or 15%

2.

(b) (i) 15

(ii) 25

(iii) 40

3.

(c) 25

(d) 23

(e) 8

(f) 8

Maths Fact: 34