

## Probability

### Workout

Question 1:

(a)  $\frac{3}{5}$                       (b)  $\frac{2}{5}$

Question 2:

(a)  $\frac{1}{12}$                       (b)  $\frac{5}{12}$                       (c)  $\frac{6}{12} = \frac{1}{2}$

Question 3:

(a)  $\frac{1}{9}$                       (b)  $\frac{4}{9}$                       (c)  $\frac{6}{9} = \frac{2}{3}$

(d)  $\frac{2}{9}$                       (e)  $\frac{3}{9} = \frac{1}{3}$                       (f)  $\frac{4}{9}$

Question 4:

(a)  $\frac{3}{20}$                       (b)  $\frac{15}{20} = \frac{3}{4}$                       (c)  $\frac{8}{20} = \frac{2}{5}$

Question 5: 0.6

Question 6: 0.2

Question 7: 0.17

Question 8:

(a)  $\frac{15}{80} = \frac{3}{16}$                       (b)  $\frac{65}{80} = \frac{13}{16}$

Question 9:

$$\frac{2}{20} + \frac{13}{20} = \frac{15}{20} = \frac{3}{4}$$

Question 10:

(a) 0.2

(b) 8

Question 11: 0.25

Question 12:

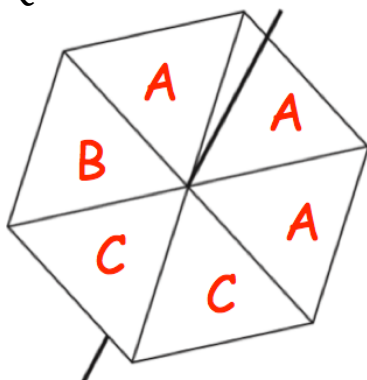
$$\frac{695}{700} = \frac{139}{140}$$

Question 13: 12

Question 14: 273

### Apply

Question 1:



Question 2:

8

8

7

7

7

7

6

3

Question 3:

(a)

	Under 20 driving lessons	20 or over driving lessons	total
Pass	9	21	30
Fail	45	15	60
total	54	36	90

(b)  $\frac{60}{90} = \frac{2}{3}$

(c)  $\frac{54}{90} = \frac{27}{45}$

(d)  $\frac{9}{30} = \frac{3}{10}$

Question 4:

Spinner 1 probability for landing on 4 is  $\frac{2}{10} = \frac{1}{5}$  whilst spinner 2's probability is  $\frac{1}{4}$  which is a higher probability.

Question 5:

(a)  $\frac{4}{23}$

(b)  $\frac{18}{23}$

Question 6: 80 points

Question 7: 0.45

Question 8: 8

Question 9: Two 1ps, four 2ps and four 10ps

Question 10:

(a) 0.1

(b) 75

Question 11:

(a)  $n+5$

(b)  $\frac{n}{n+5}$

(c)  $\frac{5}{n+5}$

Question 12:  $\frac{3}{4}$  or 0.75