

Probability and Financial Literacy

1 Calculate the final amount when it changes by a percentage

Take 30% discount from \$90

A	\$34.65	B	\$47.25
C	\$85.05	D	\$63.00
E	\$50.40	F	\$56.70

2 Calculate the final amount when it changes by a percentage

5% less than \$60

A	\$68.40	B	\$34.20
C	\$37.05	D	\$42.75
E	\$57.00	F	\$31.35

3 If paying \$44 for a \$40 meal is a 10% tip, what tip percent would paying \$56 be?

10% of 40 is 4 What is the % change if 40 grows to 56

Meal...\$40 Tip(10%)...\$4 Total...\$44	Meal...\$40 Tip(?)...\$- Total...\$56
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A	50%	B	40%	C	30%
D	85%	E	28%	F	10%

4 Calculate the final amount when it changes by a percentage

20% more than \$90

A	\$75.60	B	\$124.20
C	\$145.80	D	\$108.00
E	\$118.80	F	\$81.00

5 Calculate the final amount when it changes by a percentage

25% more than \$64

A	\$108.00	B	\$116.00
C	\$80.00	D	\$72.00
E	\$40.00	F	\$48.00

6 Which option has the lowest price per kg?

3/4 kg \$7.75	P
5/8 kg \$8.75	Q

A	Q
B	P

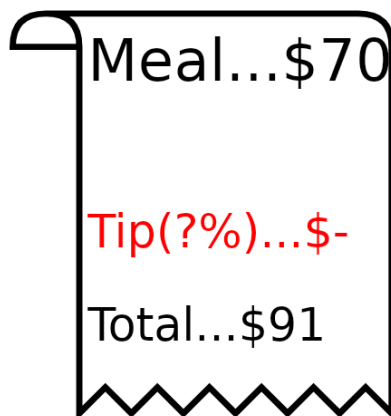
7 Which option has the lowest price per kg?

2 kg \$6.00	P
1 kg \$5.00	Q

A	P
B	Q

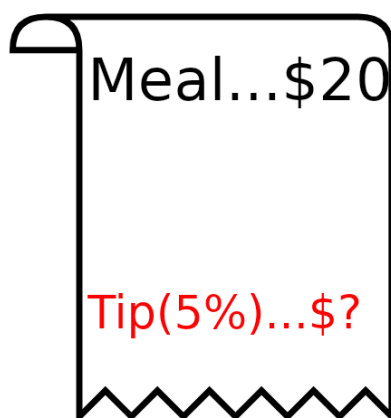
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- 8 What is the tip percent if you pay \$91 for a \$70 meal?
70 grows to 91

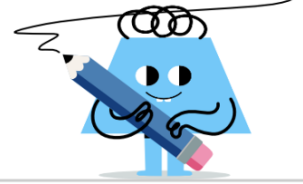


A	20%	B	50%	C	30%
D	66%	E	10%	F	87%

- 9 What would a 5% tip be?
5% of 20



A	1.5	B	10	C	0.2
D	0.3	E	1	F	0.1



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10 Which option has the lowest price per kg?

9.75 kg
\$2.75

10.75 kg
\$1.75

P

Q

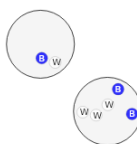
A	P
B	Q

12 What is the chance of drawing a circle at random from this bag?



A	33.3%	B	50%	C	16.7%
D	75%	E	20%		

13 What is the chance of drawing a white shape at random from both bags?



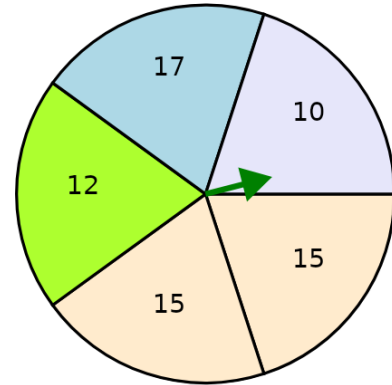
A	50%	B	66.7%	C	40%
D	33.3%	E	30%	F	100%

15 What is the probability of getting a favourable outcome?

A fair six-sided die is rolled and a spinner with red, green, and blue sections is spun. A favourable outcome is one where the die shows a 4. There are 3 favourable outcomes.

A	$\frac{5}{6}$	B	$\frac{1}{6}$
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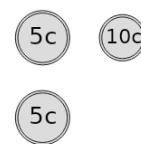
11 Calculate the probability of spinning less than 11. Show as a percent



P(< 11)

A	14%	B	17%	C	80%
D	20%	E	13%	F	100%

14 What is the chance of flipping a mixed set (not all heads or all tails) on these coins?

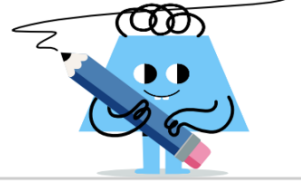


A	83.3%	B	40%	C	66.7%
D	75%	E	133.3%	F	28.6%

16 What is the probability of getting a favourable outcome?

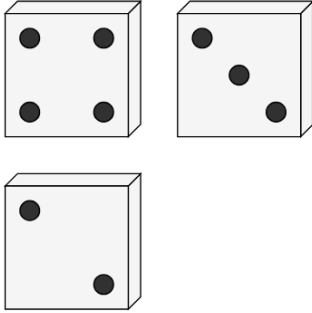
A fair coin is flipped and a fair six-sided die is rolled. There are 12 equally likely outcomes in the sample space. A favourable outcome is one where the die shows a number greater than 4.

A	$\frac{2}{3}$	B	$\frac{1}{3}$
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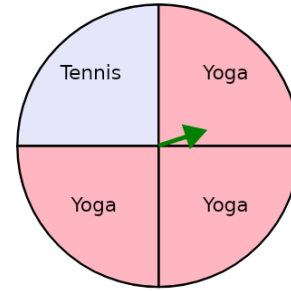
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17 What is the chance of rolling the same number on all these dice?



A	$\frac{1}{36}$	B	$\frac{3}{46}$
C	$\frac{2}{75}$	D	$\frac{2}{17}$
E	$\frac{1}{20}$	F	$\frac{3}{54}$

18 Calculate the probability of spinning a ball sport. Show as a fraction



P(ball sport)

A	$\frac{2}{10}$	B	$\frac{3}{11}$
C	$\frac{1}{4}$	D	$\frac{1}{7}$
E	$\frac{2}{4}$		

19 List all the possible outcomes in the sample space.

Two fair coins are flipped.

A	TH TT TH TT
B	HH HT TH TT