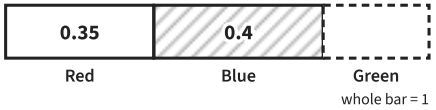
Probabilities that Add to 1

1

A spinner lands on red, blue or green.
Find P(green).

Outcome	Red	Blue	Green
Probability	0.35	0.4	



$1 - (0.35 + 0.4)$

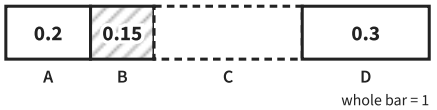
$= 1 -$ ☐

Answer _____

2

A biased spinner lands on A, B, C or D.
Find P(C).

Outcome	A	B	C	D
Probability	0.2	0.15		0.3



$1 - ($ ☐ $+$ ☐ $+$ ☐ $)$

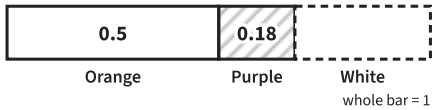
$= 1 -$ ☐

Answer _____

3

A bag holds orange, purple and white counters. One is taken at random.
Find P(white).

Colour	Orange	Purple	White
Probability	0.5	0.18	



$1 - ($ ☐ $+$ ☐ $)$

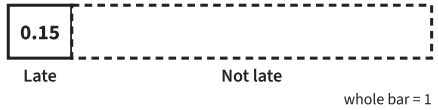
$= 1 -$ ☐

Answer _____

4

The probability that Kofi's bus is late is 0.15.
Find P(not late).

Outcome	Late	Not late
Probability	0.15	



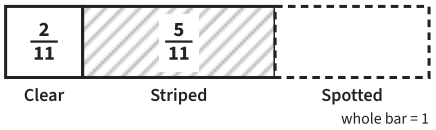
$1 -$ ☐

Answer _____

5

A bag holds clear, striped and spotted marbles. One is taken at random.
Find P(spotted).

Marble	Clear	Striped	Spotted
Probability	$\frac{2}{11}$	$\frac{5}{11}$	



Answer _____

6

A cat sleeps in its bed, on the sofa or on the windowsill. The table shows the probabilities. Find the probability it sleeps on the windowsill.

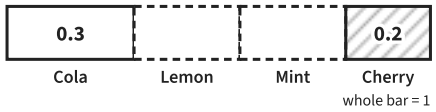
Place	Bed	Sofa	Windowsill
Probability	$\frac{1}{4}$	$\frac{1}{8}$	

Answer _____

7

A jar holds cola, lemon, mint and cherry sweets. Lemon and mint are equally likely. Find P(mint).

Flavour	Cola	Lemon	Mint	Cherry
Probability	0.3			0.2



Answer _____

8

A spinner lands on A, B or C. B and C are equally likely. Sam says P(B) = 1 − 0.4 = 0.6.
Explain Sam's mistake. Then find P(B).

Outcome	A	B	C
Probability	0.4		

P(B) = _____

Probabilities that Add to 1 *further practice*

9

A spinner has five sections numbered 1 to 5. The table shows the probabilities. Find the probability it lands on 3.

Number	1	2	3	4	5
Probability	0.12	0.3		0.25	0.08

Answer _____

10

The probability that Jamal's train is late is 0.08. What is the probability that it is not late?

Answer _____

11

Ines has pasta, curry or salad for lunch. The table shows the probabilities. Find the probability she has salad.

Lunch	Pasta	Curry	Salad
Probability	$\frac{1}{2}$	$\frac{1}{3}$	

Answer _____

12

A bag holds only red, blue and yellow beads. P(red) = $\frac{1}{2}$. Blue and yellow are equally likely. Find P(yellow).

Answer _____

13

Each spinner lands on red, blue or green. Which spinner is more likely to land on green? Show how you know.

Spinner A

Outcome	Red	Blue	Green
Probability	0.3	0.45	

Spinner B

Outcome	Red	Blue	Green
Probability	$\frac{2}{5}$	$\frac{2}{5}$	

Answer _____

14

A biased spinner lands on A, B, C or D. Find the probability that it does not land on C.

Outcome	A	B	C	D
Probability	0.2		0.35	0.1

Answer _____

15

A spinner lands on red, blue, green or yellow. Blue, green and yellow are equally likely. Find P(green).

Colour	Red	Blue	Green	Yellow
Probability	0.4			

Answer _____

16

A bag holds only red and blue counters. P(red) = 0.6. Noah says P(blue) = 0.6 as well, because there are two colours. Is Noah right? Explain.

Answer _____