

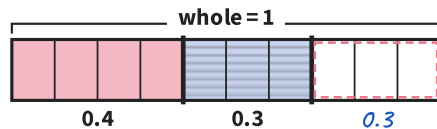
Probabilities that Add to 1

ANSWERS

1

Work out the probability of green.

Outcome	Red	Blue	Green
Probability	0.4	0.3	?



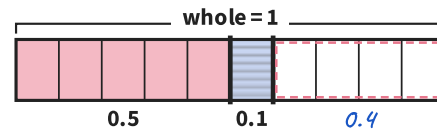
$$0.4 + 0.3 = 0.7$$

$$1 - 0.7 = 0.3$$

2

Work out the probability of white.

Outcome	Pink	Grey	White
Probability	0.5	0.1	?



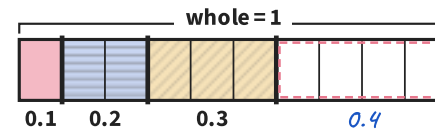
$$0.5 + 0.1 = 0.6$$

$$1 - 0.6 = 0.4$$

3

Work out the probability of D.

Outcome	A	B	C	D
Probability	0.1	0.2	0.3	?



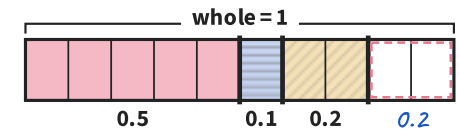
$$0.1 + 0.2 + 0.3 = 0.6$$

$$1 - 0.6 = 0.4$$

4

Work out the probability of 2.

Outcome	1	2	3	4
Probability	0.5	?	0.1	0.2



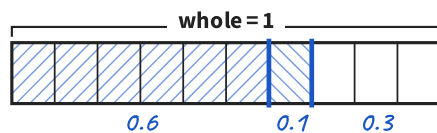
$$0.5 + 0.1 + 0.2 = 0.8$$

$$1 - 0.8 = 0.2$$

5

Work out the probability of yellow.

Outcome	Red	Blue	Yellow
Probability	0.6	0.1	?



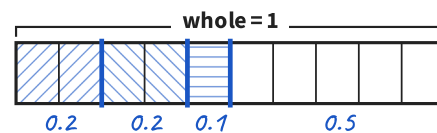
$$0.6 + 0.1 = 0.7$$

$$1 - 0.7 = 0.3$$

6

Work out the probability of white.

Outcome	Red	Blue	Green	White
Probability	0.2	0.2	0.1	?



$$0.2 + 0.2 + 0.1 = 0.5$$

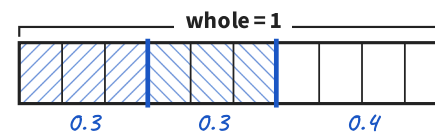
$$1 - 0.5 = 0.5$$

7

Jo picks one sweet from a bag.

Work out the probability of purple.

Outcome	Green	Orange	Purple
Probability	0.3	0.3	?

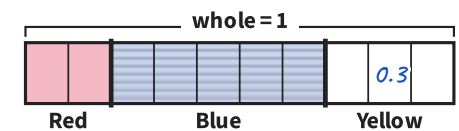


$$0.3 + 0.3 = 0.6$$

$$1 - 0.6 = 0.4$$

8

The bar shows the probabilities for a spinner. Work out the probability of yellow.



$$0.2 + 0.5 = 0.7$$

$$1 - 0.7 = 0.3$$

Probabilities that Add to 1 *further practice*

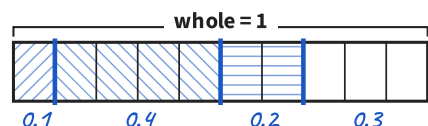
ANSWERS

9



Work out the probability of pink.

Outcome	Red	Blue	Green	Pink
Probability	0.1	0.4	0.2	?



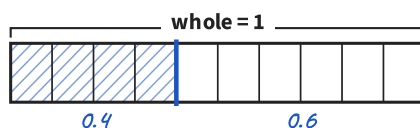
$$0.1 + 0.4 + 0.2 = 0.7$$

$$1 - 0.7 = 0.3$$

10



The probability it snows on Friday is 0.4. Work out the probability it does not snow on Friday.



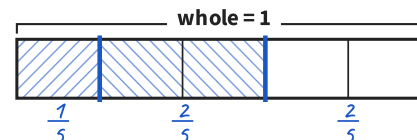
$$1 - 0.4 = 0.6$$

11



Work out the probability of green.

Outcome	Red	Blue	Green
Probability	$\frac{1}{5}$	$\frac{2}{5}$	?



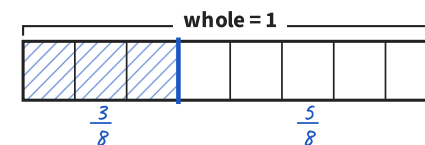
$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$

$$1 - \frac{3}{5} = \frac{2}{5}$$

12



The probability Sam wins a game is $\frac{3}{8}$. Work out the probability Sam does not win the game.



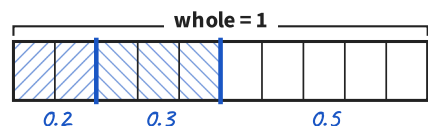
$$1 - \frac{3}{8} = \frac{5}{8}$$

13



Kim takes a chocolate without looking. Work out the probability of dark.

Outcome	Milk	White	Dark
Probability	0.2	0.3	?



$$0.2 + 0.3 = 0.5$$

$$1 - 0.5 = 0.5$$

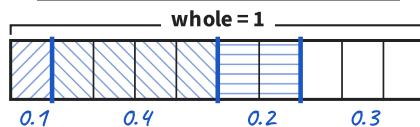
Answer 0.5

14



Which letter is the spinner most likely to land on?

Outcome	A	B	C	D
Probability	0.1	0.4	0.2	?



$$0.1 + 0.4 + 0.2 = 0.7$$

$$1 - 0.7 = 0.3, \text{ so D is } 0.3$$

B is 0.4, the biggest

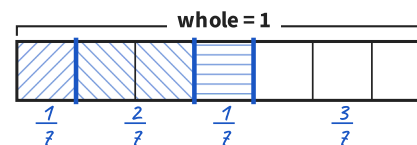
Answer B

15



Work out the probability of 4.

Outcome	1	2	3	4
Probability	$\frac{1}{7}$	$\frac{2}{7}$	$\frac{1}{7}$	?



$$\frac{1}{7} + \frac{2}{7} + \frac{1}{7} = \frac{4}{7}$$

$$1 - \frac{4}{7} = \frac{3}{7}$$

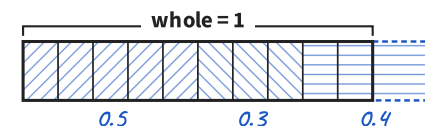
Answer $\frac{3}{7}$

16



Amir writes this table for a spinner. Explain why his table must be wrong.

Outcome	Red	Blue	Green
Probability	0.5	0.3	0.4



The probabilities add up to 1.2.

They should add up to 1.