

Where does it sit?

NAME _____

CLASS _____

Part A · Put the events on the line

Write the letter of each event in the right place on the number line below.



The same line, written as percentages. Nothing moves — only the labels change.



Part B · Write each probability three ways

	EVENT	FRACTION	DECIMAL	PERCENTAGE
A SF	A tossed coin lands heads.			
B SF	An ordinary six-sided die shows a 6.			
C SF	An ordinary six-sided die shows an even number.			
D SF	An ordinary six-sided die shows a 7.			
E SF	A four-section spinner, one section shaded, lands on shaded.			
F CF	A bag holds 8 counters: 2 red, 6 blue. You draw a red one.			
G CF	The same bag. You draw a counter that is NOT red.			
H CF	An eight-section spinner has 3 shaded sections. It lands on shaded.			
I CF	A bag holds 5 counters: 1 red, 4 green. You draw a green one.			
J CU	The next car that drives past the school gate is white.			

Event J cannot be worked out exactly. Estimate it, then explain your estimate on page 2.

WORKING SPACE

Where does it sit?

Part C · Show your thinking

Use the boxes. Working is part of the answer.

SF

1. Event C and event A ended up in the same place on the line.

Explain why, even though a die has six outcomes and a coin has two.

CF

2. Look at events F and G.

Add your two answers together. What do you get? Why does that happen?

CU

3. Event J — the next car past the gate is white.

You could not calculate this one. Write your estimate, then explain what you based it on.

GOING FURTHER

- Events G and I are close together. Which is more likely? Say how you know without working either one out.
- Invent an event with a probability of exactly $\frac{5}{8}$. Write it as a decimal and a percentage too.

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Exit ticket

Hand this in at the end of the lesson.

An event has a probability of 0.2

1. Write 0.2 as a fraction and as a percentage.

FRACTION

PERCENTAGE

2. Draw a spinner, a bag of counters or a die that would give this probability.

Label it so someone else can see why it works.

3. Mark 0.2 on the number line with an arrow.



HOW DID TODAY GO?

Tick one.

☐

I could do all of it

☐

I could do most of it

☐

I need more practice