

Probability Vocabulary And Facts Colouring Page

KS3 / Year 9 - Mathematics

Colour-code the sample spaces and annotate theoretical probability, expected frequency and the probability scale.

PROBABILITY

Use sample spaces, equally likely outcomes and expected frequency

TWO FAIR COINS

HH

HT

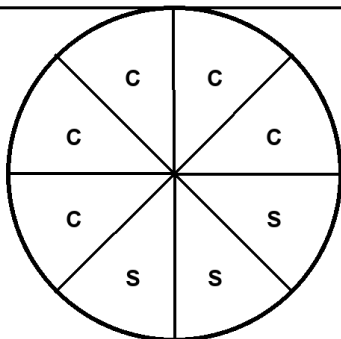
TH

TT

$$P(\text{exactly one head}) = \frac{2}{4} = \frac{1}{2}$$

All four ordered outcomes are equally likely

EIGHT-EQUAL-SECTOR SPINNER



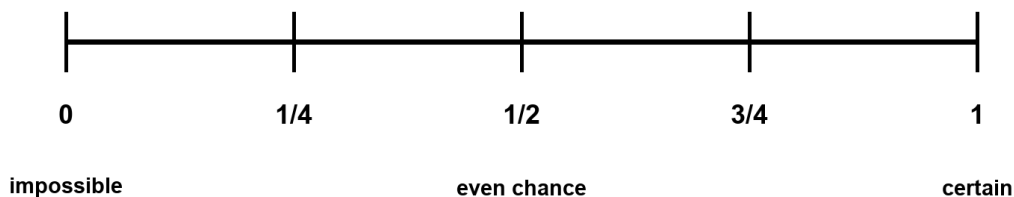
3 sectors marked S

5 sectors marked C

$$P(S) = \frac{3}{8}$$

In 40 spins: $40 \times \frac{3}{8} = 15$

PROBABILITY SCALE



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Parent & Teacher Guidance

Curriculum focus

Topic: Probability. Develop accurate observation, subject vocabulary and evidence-based explanation. Mapped scope: DfE national curriculum programme of study for key stage 3.

Before you begin

Review the picture together and ask the learner what they already notice about Probability. Read the activity aloud, explain unfamiliar vocabulary, and agree which details need special attention.

Solo activity

The learner can complete the colouring independently, then use the finished page to explain three details linked to Probability. Encourage accurate colour choices where they carry meaning, but allow creative choices elsewhere.

Group activity

Give pairs or small groups different areas to inspect. Ask them to agree on evidence before colouring, compare their findings, and present one curriculum fact to the class. Finish with a whole-group check against the guidance below.

Questions to guide discussion

What evidence can you see? Which feature is most important and why? How does one part connect to another? What new fact about Probability can you explain using the picture?

Answers and checking

Two fair coins have HH, HT, TH, TT, so exactly one head has probability $2/4 = 1/2$. The spinner has 3 successful sectors from 8, so $P(S)=3/8$. In 40 spins the expected frequency is $40 \times 3/8 = 15$.

Learning record and next steps

☐ Completed the colouring

☐ Explained key vocabulary

☐ Completed the activity

☐ Used visible evidence

Evidence noticed / vocabulary used

Next step:
