

Busy at Maths 6 - Sixth Class

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Chance – Probability

What is the chance of tossing a 'tail'?

- There are two possible outcomes – 'heads' or 'tails'.
- Both outcomes have an equal or even chance.

There is a **one in two chance**.

→ 1:2 or $\frac{1}{2}$ or 50/50



What is the chance of throwing a 3?

- There are six possible outcomes

1 2 3 4 5 or 6.

- All outcomes have an equal chance.

There is a **one in six chance**.

→ 1:6 or $\frac{1}{6}$



1. If you throw a regular 6-sided die, what is the **chance** of:

(a) throwing a 2? ____ : ____ or $\frac{\quad}{\quad}$

(b) throwing a 5? ____ : ____ or $\frac{\quad}{\quad}$

(c) throwing a 4? ____ : ____ or $\frac{\quad}{\quad}$

(d) throwing a 0? ____ : ____ or $\frac{\quad}{\quad}$

(e) throwing an odd number? ____ : ____ or $\frac{\quad}{\quad}$

(f) throwing a 9? ____ : ____ or $\frac{\quad}{\quad}$

(g) throwing a multiple of 3? ____ : ____ or $\frac{\quad}{\quad}$

(h) throwing a multiple of 2? ____ : ____ or $\frac{\quad}{\quad}$

We measure the chance of something happening by using **probability**. We can place events on a probability line to illustrate this.

impossible

even chance

certain

As we move from left to right on this line, there is a greater likelihood of an event happening.

2. Place the following statements on the appropriate part of the **probability lines**.

(a) The sun will set tonight.

impossible even chance certain

(b) Fuel prices will rise next year.

impossible even chance certain

(c) A crocodile will escape from the zoo.

impossible even chance certain

(d) School will close for a week in February.

impossible even chance certain

(e) It will snow in Donegal in December.

impossible even chance certain

(f) I will win a race against my friend.

impossible even chance certain