Free Extra Maths Class · Grade 5

Probability

Name: _____

Remember: Chance goes from **impossible** to **certain**. First write down **all the outcomes**. Chance as a fraction = **favourable outcomes ÷ all outcomes**. **Why?** You compare the parts you want with the whole.

1 Choose: impossible, unlikely, even chance, likely or certain.
The sun will rise tomorrow.

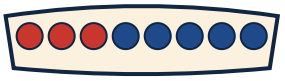
2 Choose: impossible, unlikely, even chance, likely or certain.
You throw a 7 with an ordinary die.

3 Choose: impossible, unlikely, even chance, likely or certain.
You toss a coin and get heads.

4 Write all the possible outcomes when you throw a die.

5 The spinner has 4 equal parts: red, blue, green and yellow. How many possible outcomes are there?

6 The bag has 3 red and 5 blue marbles. Which colour are you more likely to take out?



7 The same bag: what is the chance of taking out a red marble? Write it as a fraction.

8 You toss a coin 20 times. About how many times do you expect heads?

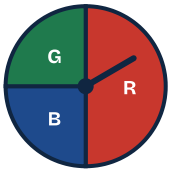
9 Mpho throws a die 30 times. On top is the number, below how many times. Which number came up most often?

1	2	3	4	5	6
4	6	5	3	7	5

10 Look at Mpho's table again. How many times did he throw a 4?

11 Is a 6 more likely than a 1 on a fair die?

12 Which colour will the spinner most likely stop on? (R = red, B = blue, G = green)



13 The same spinner: what is the chance of blue? Write it as a fraction.

14 A bag has 4 green marbles and nothing else. What is the chance of a red marble?

15 A bag has 3 red and 5 blue marbles. How many red marbles must you add so that red and blue have an even chance?

I got _____ out of 15 ☆ ☆ ☆

Free Extra Maths Class · Grade 5 · Memo

Memo: Probability

1. **Certain**
2. **Impossible**
3. **Even chance**
4. **1, 2, 3, 4, 5, 6**
5. **4**
6. **Blue**
   There are more blue (5) than red (3).
7. **3/8**
   3 red out of 8 marbles altogether.
8. **About 10**
   Heads and tails have an even chance: half of 20.
9. **5 (7 times)**
10. **3**
11. **No: every number has the same chance**
12. **Red**
    Red is half of the spinner.
13. **1/4**
    Blue is a quarter of the circle.
14. **Impossible (0)**
15. **2**
    3 + 2 = 5 red, as many as blue.