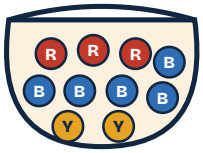
Probability

Name: _____ **Date:** _____

Remember: Probability = **favourable outcomes ÷ all outcomes**. Because the favourable outcomes can never be more than all the outcomes, **it is always between 0 (impossible) and 1 (certain)**.

1. The bag has 3 red, 5 blue and 2 yellow marbles. How many marbles are there altogether?



Answer: _____

2. Write down all the possible outcomes when you toss a coin.

Answer: _____

3. Write down all the possible outcomes when you throw a normal die.

Answer: _____

4. Is it certain, possible or impossible? You throw a 7 with a normal die.

Answer: _____

5. Is it certain, possible or impossible? You take a red, blue or yellow marble out of the bag.

Answer: _____

6. What is the probability of drawing a red marble? Write it as a fraction.

Answer: _____

7. What is the probability of drawing a blue marble? Write it as a fraction.

Answer: _____

8. What is the probability of drawing a green marble?

Answer: _____

9. Which colour is the least likely?

Answer: _____

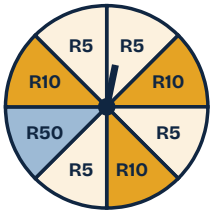
10. You throw a die. What is the probability of throwing an even number?

Answer: _____

11. What is the probability of throwing a number bigger than 4?

Answer: _____

12. The spinner has 8 equal parts. What is the probability that it stops on R10?



Answer: _____

13. Is R5 or R10 more likely on the spinner? Explain.

Answer: _____

14. Thabo puts 2 more red marbles into the bag. What is the probability of drawing a red marble now?

Answer: _____

15. You throw a die 60 times. About how many times do you expect to throw a 6?

Answer: _____

© MeerkatSkool

I got _____ **out of 15** ⭐⭐⭐

Memorandum · Probability

1. **10**
   3 + 5 + 2 = 10
2. **heads, tails**
   2 outcomes
3. **1, 2, 3, 4, 5, 6**
   6 outcomes
4. **impossible**
   a die only has 1 to 6
5. **certain**
   every marble in the bag is red, blue or yellow
6. **3/10**
   3 red out of 10: 3/10
7. **1/2**
   5 blue out of 10: 5/10 = 1/2
8. **0 (impossible)**
   there are no green marbles
9. **yellow**
   only 2 of the 10
10. **1/2**
    2, 4, 6: 3 out of 6 = 1/2
11. **1/3**
    5, 6: 2 out of 6 = 1/3
12. **3/8**
    3 of the 8 parts
13. **R5 is more likely: 4 of 8 parts, R10 only 3**
    4/8 is more than 3/8
14. **5/12**
    5 red out of 12 marbles
15. **about 10 times**
    1/6 of 60 = 10

© MeerkatSkool