



# Probability as Fractions Dice Roll Investigation



I can represent possible outcomes in fraction format.

## Part 1.

1. List all of the likely outcomes when rolling a dice.

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2. What is the probability (in fraction format) that you will roll a three (3)?

3. What is the probability (in fraction format) that you will roll an odd number?

4. What is the probability (in fraction format) that you will roll an even number?

## Part 2.

1. Roll a dice ten (10) times and record each number shown as a tally mark.

One (1)	Two (2)	Three (3)	Four (4)	Five (5)	Six (6)

2. Write each number total as a fraction.

3. Was the actual outcome for rolling even numbers different to the probability?

4. Was the actual outcome for rolling a three (3) different to the probability?

# Probability as Fractions

## Dice Roll Investigation **Answers**

Part 1.

1. List all of the likely outcomes when rolling a dice.

One (1)	Two (2)	Three (3)
Four (4)	Five (5)	Six (6)

2. What is the probability (in fraction format) that you will roll a three (3)?

$$\frac{1}{6}$$

3. What is the probability (in fraction format) that you will roll an odd number?

$$\frac{3}{6} \quad \text{or} \quad \frac{1}{2}$$

4. What is the probability (in fraction format) that you will roll an even number?

$$\frac{3}{6} \quad \text{or} \quad \frac{1}{2}$$

Part 2.

1. Roll a dice ten (10) times and record each number shown as a tally mark.

One (1)	Two (2)	Three (3)	Four (4)	Five (5)	Six (6)
Child's own answer.					

2. Write each number total as a fraction.

Child's own answer.

3. Was the actual outcome for rolling even numbers different to the probability?

Child's own answer.

4. Was the actual outcome for rolling a three (3) different to the probability?

Child's own answer.