

Probability as Fractions

Make a Bug Dice Game

I can represent possible outcomes in fraction format. (ACMSP116)

Probability as Fractions

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

_____	_____
_____	_____
_____	_____

2. What is the probability (in fraction format) that you will roll a five (5)?

Dice Game Bug Body Parts

One (1)	Two (2)	Three (3)	Four(4)	Five (5)	Six (6)
Head	Leg	Body	Eyes	Antenna	Leg

3. If you need to roll a two (2) or a six (6) to draw a leg on your bug, what is the probability (in fraction format) that you will roll a leg?

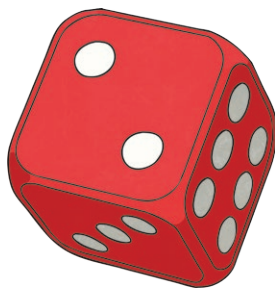
Make A Bug!

You Will Need:

- Dice (6 sided)
- Pencil

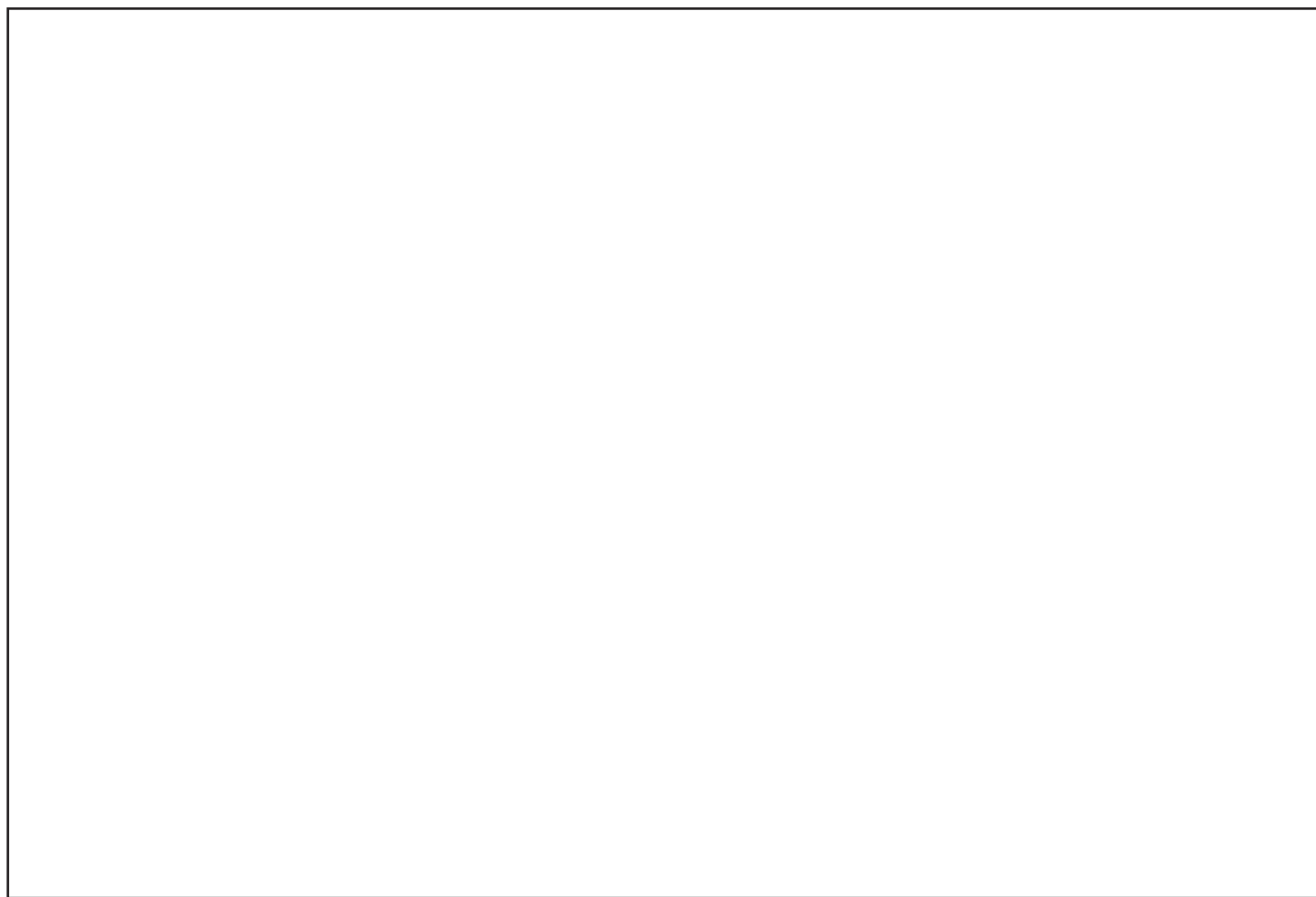
How to Play:

- The bug needs 1 body, 1 head, 2 eyes, 2 antennae and 6 legs.
- Roll the dice. You need to roll a three (3) to start drawing your bug.
- Record each number shown as a tally mark.
- Continue to roll the dice until you have completed the drawing of the bug.



Probability as Fractions Make a Bug Dice Game

One (1)	Two (2)	Three (3)	Four(4)	Five (5)	Six (6)
Head	Leg	Body	Eyes	Antenna	Leg



Make a Bug Dice Game Questions:

1. How many rolls of the dice did it take you to complete the picture of the bug?

2. Write each number rolled total as a fraction.

3. How many rolls did it take you to roll a number three (3)? Write this is a fraction.

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4. Was the actual outcome for rolling a leg different to the probability? How?

5. If you were to do this activity again, do you think it would take the same amount of rolls? Why or why not?

Probability as Fractions

Make a Bug Dice Game

Answers

Probability as Fractions

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 five (5)?

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

Dice Game Bug Body Parts

3. If you need to roll a two (2) or a six (6) to draw a leg on your bug what is the probability (in fraction format) that you will roll a leg?

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

Make a Bug Dice Game Questions:

1. How many rolls of the dice did it take you to complete the picture of the bug?
Child's own answer.
2. Write each number rolled total as a fraction.
Child's own answer.
3. How many rolls did it take you to roll a number three (3)? Write this as a fraction.
Child's own answer.
4. Was the actual outcome for rolling a leg different to the probability? How?
Child's own answer.
5. If you were to do this activity again, do you think it would take the same amount of rolls?
Why or why not?
Child's own answer.