# How Likely Is It?

Probability from 0 to 1

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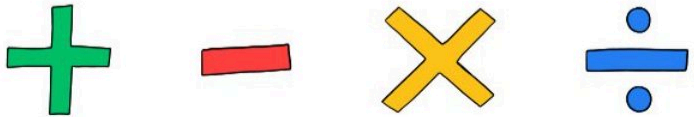
# Today we will...

**WE ARE LEARNING TO**

- Understand probability is a number from 0 to 1
- Use unlikely, even chance, and likely to describe events
- Compare numbers to tell which event is more likely

**SUCCESS LOOKS LIKE**

- ✓ I can place an event on the 0 to 1 scale
- ✓ I can explain what near 0, 1/2, and near 1 mean



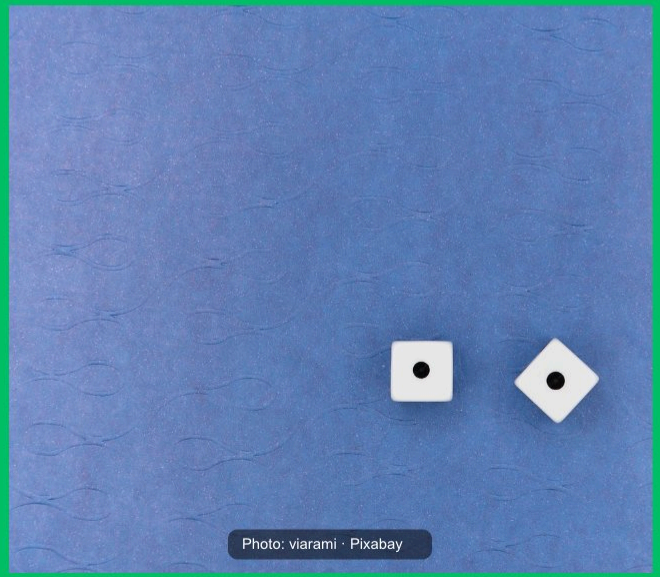


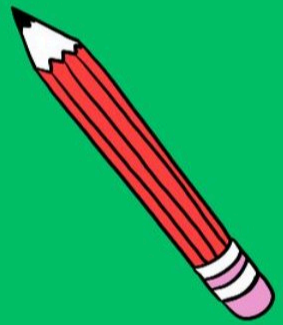
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$a^2+b^2=c^2$

# Chance Is All Around Us

1. Flipping a coin lands heads or tails
2. Rolling a six-sided die lands 1 to 6
3. Picking a card gives red or black
4. Tomorrow may rain — or it may not



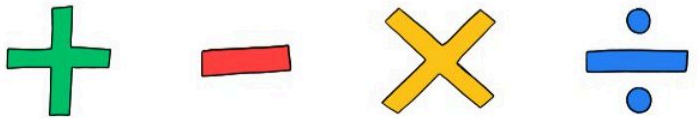
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ALL CHANCE LIVES HERE

# 0 to 1

## Every probability lives on this scale

0 means impossible, 1 means certain, larger means more likely.





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$a^2+b^2=c^2$

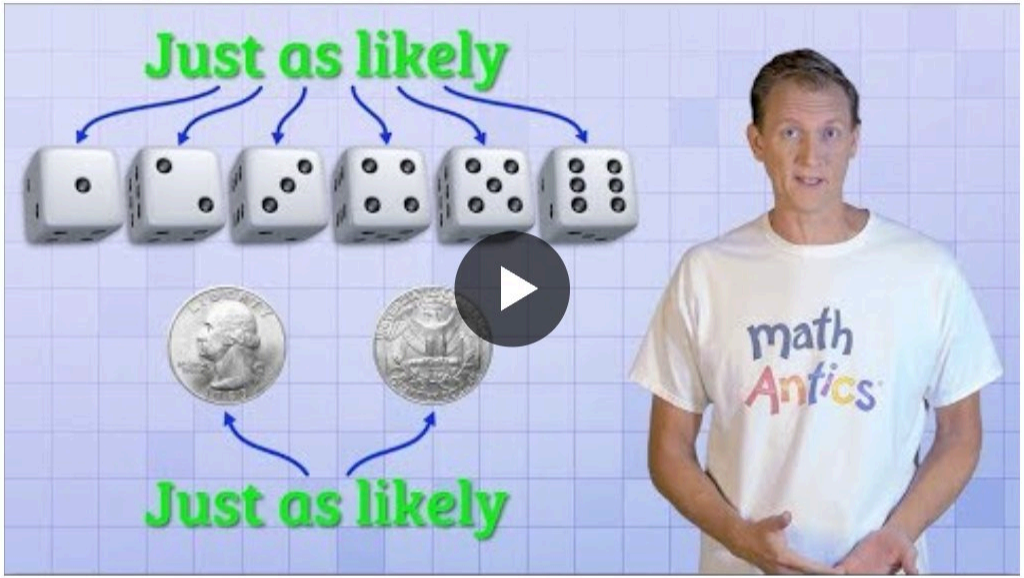
## Think, pair, share

You flip a fair coin. Is heads unlikely, an even chance, or likely? How do you know?



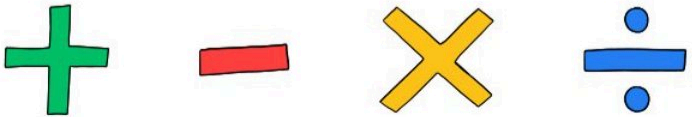
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# Watch: 0 to 1




▶ 0:00 – 5:00

- Listen for what 0, 1/2, and 1 mean
- Notice words: unlikely, even chance, likely



$a^2+b^2=c^2$

# Three Zones on the Scale



### Near 0: Unlikely

Rolling a 6 twice in a row is hard to get.



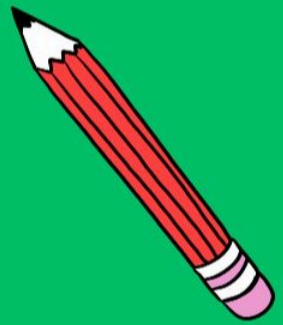
### Near 1/2: Even Chance

A coin landing heads is neither unlikely nor likely.



### Near 1: Likely

Pulling blue from 9 blue, 1 red is easy.



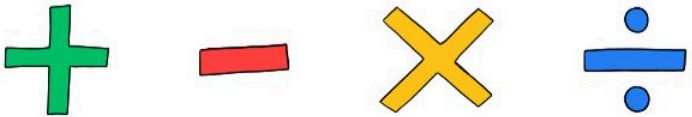
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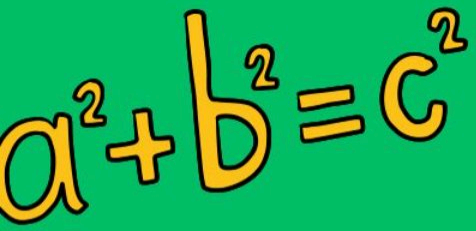
# Watch: Finding Likelihood




▶ 0:00 – 5:00

- Watch how examples get placed on the scale
- Listen for why larger numbers mean more likely





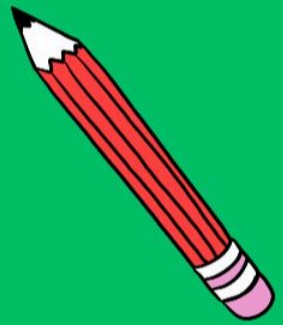

# Your task

**Draw your own 0 to 1 scale and place your own events on it.**

1. Draw a line from 0 to 1 and mark 1/2 in the middle.
2. Add one unlikely event, one even-chance event, and one likely event.
3. In pairs, compare lines and agree which event is most likely.

**10 min**

**In pairs**



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# Key words

**probability**

How likely a chance event is, from 0 to 1

**unlikely**

Near 0; probably will not happen

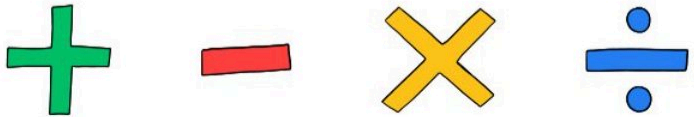
**even chance**

Around 1/2; neither unlikely nor likely

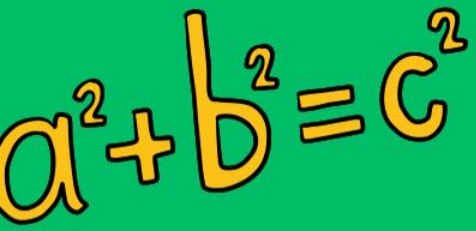
**likely**

Near 1; probably will happen



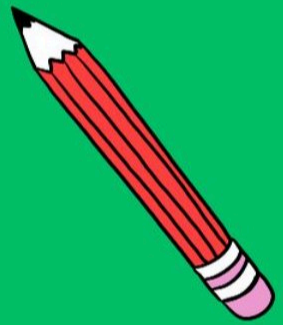



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# Which Game Should We Play?

## Which even-chance game should we try next as a class?



**A** Flip a coin: heads or tails

**B** Roll a die: even or odd

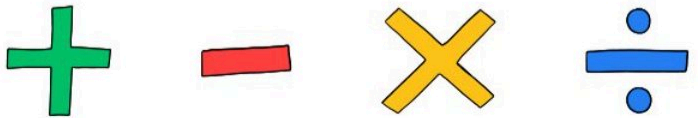
**C** Draw a card: red or black

Vote with your hands, then explain why.

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# Quick quiz

1. A probability of 0 means what?
2. What does a probability around 1/2 tell you?
3. Which shows greater likelihood, 0.2 or 0.85?
4. P = 0.95. Is this unlikely, even chance, or likely?





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