

1. Data Management

Probability Grade 6
D-21, D-22, D-23

Materials: coins

1. a. List all the outcomes that are possible if you toss two coins.
- b. Which of these are favourable if you want to toss a heads and a tail?
- c. What is the probability of tossing a head and a tail if you toss two coins?

- 2 Shannon conducted the following experiment.
She tossed two coins 12 times and she had the following results:

two heads	6
two tails	4
a head and a tail	2

She concluded that heads are luckier because they come up more often.

- a) Explain the errors in Shannon's reasoning.
- b) How many times do you expect to get a head and a tail if you toss two fair coins 12 times?

When you have completed this station,
place answer sheet in your portfolio

Label your portfolio entry.

Please tidy up the station.

2. Data Management

Grade 6
N-42, N-43
D-9, D-17, D-23

Materials: container or plastic bag of colored blocks
sheet of paper
crayons
straight edge or ruler

1. Find the colored blocks labelled for this activity.
2. Sort according to color.
3. Place the blocks side by side on the sheet of paper to make a circle. Be sure to keep the same colors together.
4. Draw a circle just outside the ring of blocks.
5. Leaving the blocks in place, make a dot as close to the middle of the circle as possible.
6. Next draw a line between each color from the point you drew at the centre of the circle to the circle you have drawn around the blocks.
7.
 - a) Knowing that you started with 32 blocks, give the fraction of each of the colors of blocks.
 - b) Explain why the total of all the blocks can be represented as $\frac{32}{32}$.
 - c) What is the fraction that represents the _____ blocks and the _____ blocks? Explain your strategy.
 - d) What is the fraction that represents the _____, the _____ and the _____ blocks? Explain your strategy.
8. Next , color each section of the circle to represent the color of blocks it contains. Remove the blocks and label your circle graph.
9. Look at the chart on the other side of this card. This is a circle graph that represents the number of colored blocks:
pink green blue orange yellow
 - a) Estimate what fraction of the total number of blocks is each color. Can you determine how many blocks of each color there are?
 - b) What fraction represents the total number of blocks? Explain how this affects your estimates for a).

When you have completed this station, place your answer sheet in your portfolio.
Do not forget to label your entry.

Please tidy up the station.