Cupcake Fractions

Here's a quick game that will help you to find fractions of an amount.

You're going to sell cupcakes at a market. You need to pay the market manager for the stall. She wants a fraction of your cupcakes instead of money, but she keeps changing her mind about what fraction she should get! See how many fractions you can find.

You will need:

- Cupcake Cards, printed on thin card
- Scissors

What to do

1. Cut out the Cupcake Cards. (Check with an adult before using scissors.)

2. Take 10 cupcakes. This is how many you have to sell today. Find the following fractions of cupcakes to give to the market manager.

$$\frac{1}{2} \quad \frac{1}{5} \quad \frac{2}{5} \quad \frac{1}{10} \quad \frac{3}{5} \quad \frac{3}{10}$$

3. Repeat, but with 20 cupcakes and the following fractions.

$$\frac{1}{2} \quad \frac{1}{4} \quad \frac{3}{4} \quad \frac{1}{5} \quad \frac{2}{5} \quad \frac{1}{10} \quad \frac{3}{5} \quad \frac{3}{10} \quad \frac{7}{20}$$

More challenges

- With 21 cupcakes, look for thirds and sevenths (e.g. $\frac{1}{3} \quad \frac{2}{3} \quad \frac{1}{7} \quad \frac{5}{7}$).

- With 24 cupcakes, look for sixths, eighths and twelfths, as well as halves, thirds, quarters (e.g. $\frac{1}{6} \quad \frac{5}{6} \quad \frac{1}{8} \quad \frac{3}{8} \quad \frac{5}{12} \quad \frac{1}{2} \quad \frac{1}{6} \quad \frac{2}{3}$).

- Look for fractions against the clock: How many can you find in 3 minutes, 2 minutes or even just 1 minute?
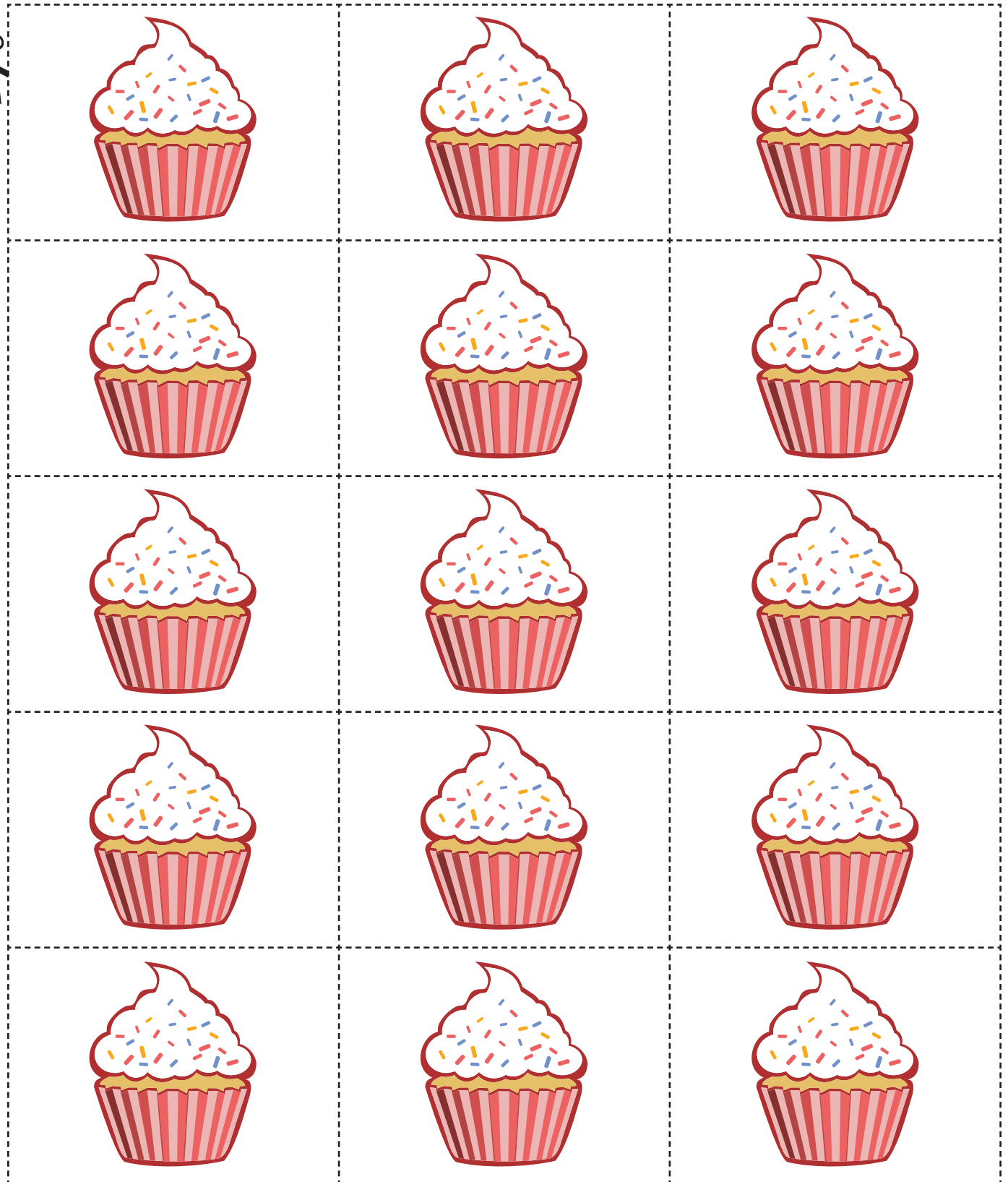
Top tip

The bottom number of a fraction tells you how many equal parts a thing, or an amount, has been split into.

The top number tells you how many of those parts you need.

To find a fraction of the cupcakes, look at the bottom number of the fraction and split the cupcakes into that many equal piles. Then look at the top number and take that many of the piles. Now, add up how many you have in just those piles.

Cupcake Cards

Cupcake Cards (continued)