

Calculating 12, Multiplying and dividing fractions

Yoghurt Robot

How this will help your child

- This activity will help your child to practise multiplying fractions.
- It will also help them visualize what happens when they multiply fractions by using a diagram.

Words and phrases to use

fraction, proportion, whole, calculation, multiply, numerator (the top number in a fraction), denominator (the bottom number in a fraction)

You will need

- Scissors
- Colouring pencils
- Paper

During the activity, look at what your child can do

- Complete a diagram to help them multiply a fraction by a fraction.
- Record a fraction-multiplying calculation.

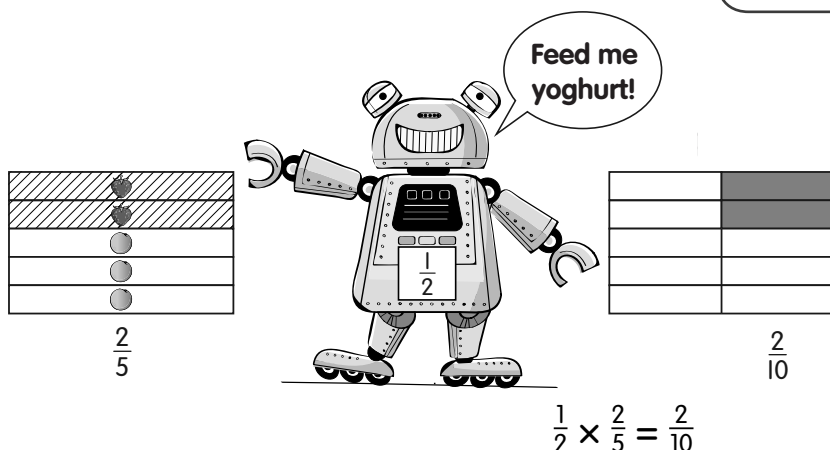
What to do

- Cut out the cards from the Yoghurt Robot sheet. Give your child the shaded yoghurt pack cards.
- Tell your child that each card represents a pack of yoghurt pots and the fruits show the fraction of strawberry yoghurts in the pack, e.g. 2 strawberry pieces out of 5 shows 2 out of the 5 pots in the pack are strawberry, or 'Two-fifths of the pack is strawberry yoghurt'.

- Ask your child to turn over a fraction card, e.g. $\frac{1}{2}$, and explain that this shows what proportion of the strawberry yoghurt the robot eats. Place this in the robot's tummy.
- Ask your child to choose one yoghurt pack card (to feed to the robot) and to find the matching blank yoghurt pack. Agree that you will use the blank card to show how much of the whole pack the robot eats.
- Start by splitting each blank yoghurt into the number of parts shown by the denominator (bottom number) on the fraction card. For example, for $\frac{1}{2}$ split each yoghurt into 2 equal parts. Shade the number of parts of each strawberry yoghurt the robot eats. Agree that the number of parts is shown by the numerator (top number) on the fraction card, e.g. 1. (Remember that the robot only eats a fraction of the strawberry yoghurt.) **1**
- Ask your child to write the amount of yoghurt the robot eats as a fraction of the whole pack. Agree this is the number of parts they shade, over the total number of parts, e.g. $\frac{2}{10}$. Ask them to write the associated calculation, e.g. $\frac{1}{2} \times \frac{2}{5} = \frac{2}{10}$. **1**
- Continue this activity, selecting a different yoghurt pack and fraction card each time.

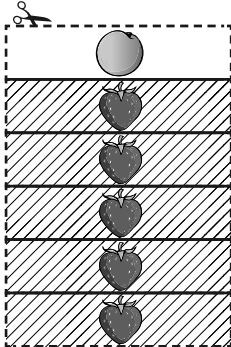
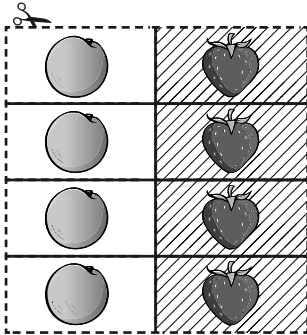
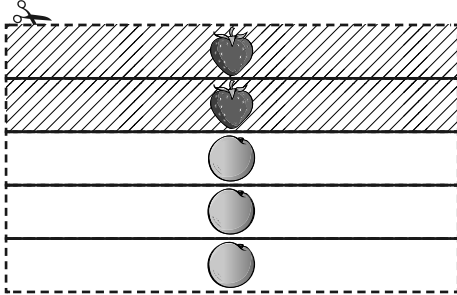
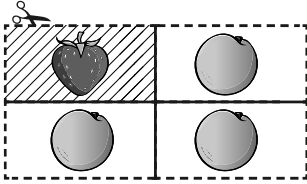
Next steps ...

- Give your child some other fractions to multiply using a diagram of their own.
- At mealtimes, talk about fractions and what proportion of the meal is left.

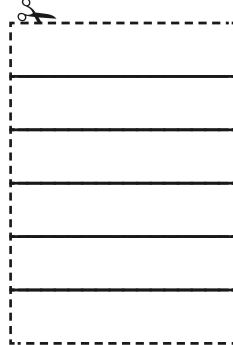
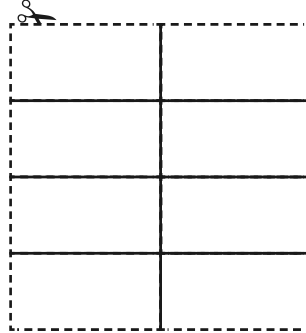
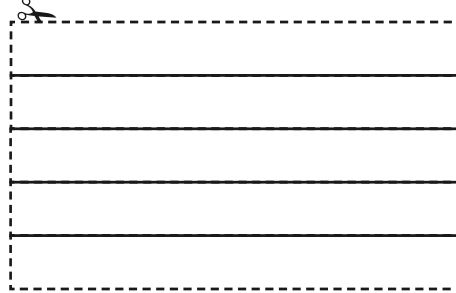
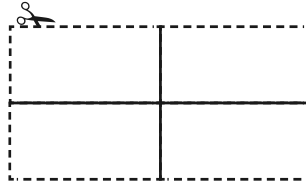


Yoghurt Robot

Yoghurt pack cards



Blank yoghurt pack cards



Fraction cards

