play! ▶ Equal Fractions: **Part 1**   [Halves]

1. Study: 1 half is equal to 2 quarters.

$\frac{1}{2}$	$\frac{1}{2}$

1 of
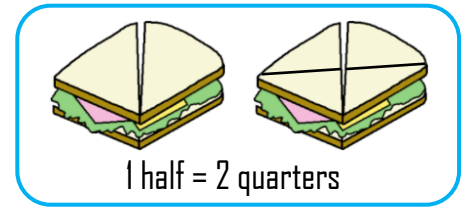2 equal parts
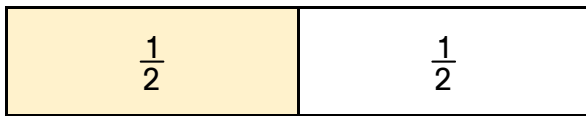
1 half = 2 quarters

Each half has been divided in half
to make four equal parts in total.

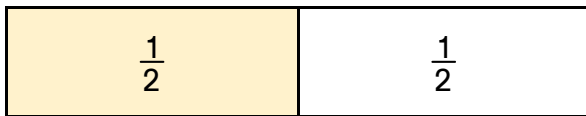| $\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

2 of
4 equal parts

×2
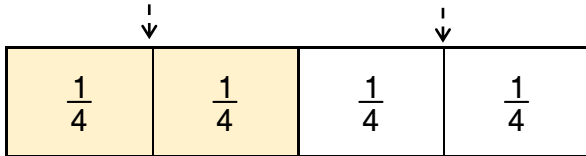
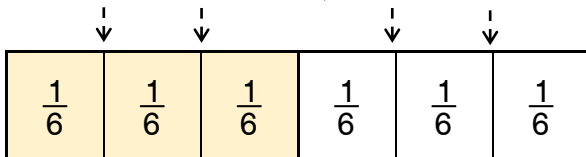From halves to quarters
the number of equal
parts are doubled.

2. Complete: $\frac{1}{2} \times \frac{2}{2} = $ ——

We have multiplied by 1 because $\frac{2}{2} = 1$.
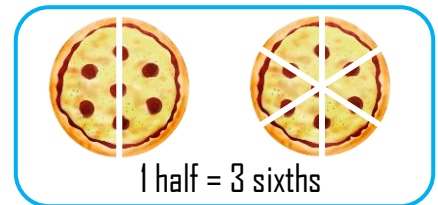
3. Study: 1 half is equal to 3 sixths.

$\frac{1}{2}$	$\frac{1}{2}$

1 of
2 equal parts

1 half = 3 sixths

Each half has been divided into 3 equal parts
to make 6 equal parts in total.

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

3 of
6 equal parts

×3

From halves to
sixths, the number
of equal parts have
been tripled.

4. Complete: $\frac{1}{2} \times \frac{3}{3} = $ ——

We have multiplied by 1 because $\frac{3}{3} = 1$.

5. Complete: a) $\frac{1}{2} \times \frac{4}{4} = $ ——   b) $\frac{1}{2} \times \frac{6}{6} = $ ——

6. Complete: a) $\frac{1}{2} = \frac{}{10}$ b) $\frac{1}{2} = \frac{}{16}$

7. Dividing by 3 is the opposite of multiplying by 3.

   Therefore, 3 sixths = 1 half: $\dfrac{3^{\div 3}}{6_{\div 3}} = \dfrac{1}{2}$

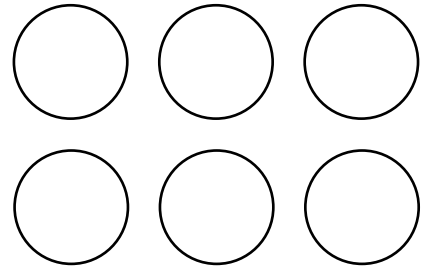   > We have divided by 1 because $\dfrac{3}{3} = 1$

8. Complete: a) $\dfrac{4}{8} \div \dfrac{4}{4} = $ ——   b) $\dfrac{7}{14} \div \dfrac{7}{7} = $ ——

9. Complete: a) $\dfrac{2}{4} = \dfrac{}{2}$ b) $\dfrac{5}{10} = \dfrac{}{2}$ c) $\dfrac{9}{18} = \dfrac{}{2}$

10. Three of the six balls in a bag are green.

    What fraction of the balls in the bag are green?

    _____ or _____

11. What fraction is: a) 4km of 8km? _____

                        b) 5 hours of 10 hours? _____

12. Six cupcakes are shared equally between 2 girls.

    a) Each girl gets _____ cupcakes out of the 6 cupcakes.

    b) Each girl gets _____ or _____ of the cupcakes, in fraction form.

    Sharing between 2, think halves.