play! Equal Fractions: **Part 2**

1. Study: 1 third is equal to 2 sixths.

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
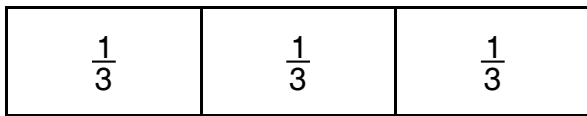
1 of
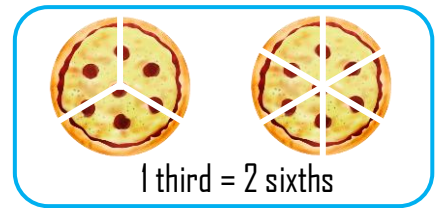3 equal parts

Each third has been divided into 2 equal parts to make 6 equal parts in total.

$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
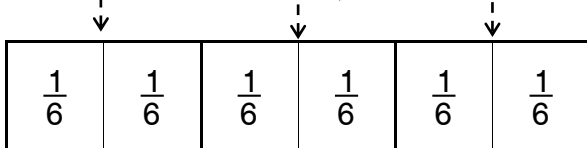
2 of
6 equal parts

×2

From thirds to sixths the number of equal parts has been doubled.

1 third = 2 sixths
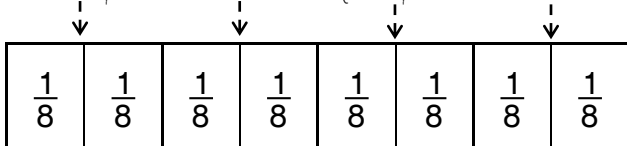
2. Complete: a) $\frac{1}{3} \times \frac{2}{2} = $ ——

b) $\frac{2}{3} \times \frac{2}{2} = $ ——

3. Study: 1 quarter is equal to 2 eighths.

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

1 of
4 equal parts

Each quarter has been divided into 2 equal parts to make 8 equal parts in total.

$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

2 of
8 equal parts

×2

From quarters to eighths the number of equal parts has been doubled.
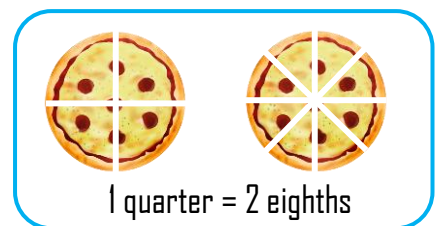
1 quarter = 2 eighths

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

b) $\frac{3}{4} \times \frac{2}{2} = $ ——

5. Complete: a) $\frac{1}{3} \times \frac{3}{3} = $ —— b) $\frac{1}{4} \times \frac{5}{5} = $ ——

$\frac{2}{3} \times \frac{3}{3} = $ —— $\frac{3}{4} \times \frac{5}{5} = $ ——

6. Complete: a) $\dfrac{1}{3} = \dfrac{}{6}$ b) $\dfrac{1}{4} = \dfrac{}{12}$ c) $\dfrac{1}{6} = \dfrac{}{30}$

$\dfrac{2}{3} = \dfrac{}{6}$ $\dfrac{3}{4} = \dfrac{}{12}$ $\dfrac{5}{6} = \dfrac{}{30}$

7. Dividing by 2 is the opposite of multiplying by 2.

Therefore, 6 eighths = 3 quarters: $\dfrac{6^{\div 2}}{8_{\div 2}} = \dfrac{3}{4}$

8. Complete: a) $\dfrac{2}{6} \div \dfrac{2}{2} = \underline{\quad}$ b) $\dfrac{4}{12} \div \dfrac{4}{4} = \underline{\quad}$ c) $\dfrac{8}{24} \div \dfrac{8}{8} = \underline{\quad}$

9. Complete: a) $\dfrac{3}{12} = \dfrac{}{4}$ b) $\dfrac{5}{15} = \dfrac{}{3}$ c) $\dfrac{6}{30} = \dfrac{}{5}$

10. Eight caps are shared amongst 4 boys.

a) Each boy gets _____ of the 8 caps.

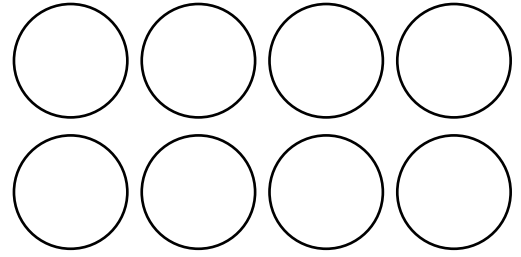b) Each boy gets _____ or _____ of the caps, in fraction form.

11. Complete: a) $\dfrac{4}{6} \div \dfrac{2}{2} = \underline{\quad}$ b) $\dfrac{9}{12} \div \dfrac{3}{3} = \underline{\quad}$ c) $\dfrac{6}{10} \div \dfrac{2}{2} = \underline{\quad}$

12. Complete: a) $\dfrac{6}{8} = \dfrac{}{4}$ b) $\dfrac{6}{9} = \dfrac{}{3}$ c) $\dfrac{10}{12} = \dfrac{}{6}$

13. Six of the eight balls in a bag are blue.

    What fraction of the balls in the bag are blue?

    _____ or _____

14. What fraction is: a) 6 kg of 15 kg? _____

                       b) 10 minutes of 25 minutes? _____