

## Lesson 2: Equivalent Fractions (x3 or more)

**Time allowed:** 2 x 30 mins over 2 days

**Worksheets:** 2-6, Template A

**Intended outcomes:**

- For the student to be able to find equivalent fractions of various fractions x 3 or more.
- Students can identify from either the numerator or denominator which has changed, and what the missing element will be.

**Curriculum standards:**

- US 3.NF.3ab Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size  
 4.NF.1 Explain why a fraction  $a/b$  is equivalent to a fraction  $(n \times a)/(n \times b)$  by using visual fraction models
- Aust ACMNA077 Investigate equivalent fractions used in context
- UK LKS2yr3 recognise and show, using diagrams, equivalent fractions with small denominator  
 LKS2yr4 recognise and show, using diagrams, families of common equivalent fraction

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- d) Wo  
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- e) Use  
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Rule:

**Variation**

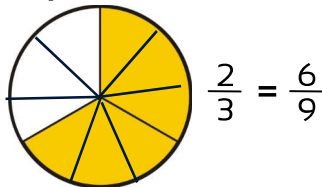
- a) Use the **Equivalent denominator slide** to discover all the equivalent fractions that can be made from one original fraction, up to hundredths.
- e) Focus especially on fractions that can be represented as tenths and hundredths (these will be converted to decimal fractions later).
- f) Use **Template A** if more examples are needed.



Name \_\_\_\_\_

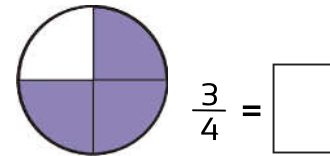
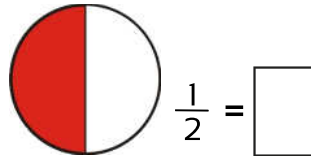
## Cut each Fractional Piece into Three Pieces

Equivalent fractions  
example:



Draw lines to cut each fractional piece in three pieces to make new fractions.

Write the equivalent fraction that each shape now shows.





This is a

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Write  
three

it in

1)

x3

2)  $\frac{1}{11} = \frac{\square}{\square}$

5)  $\frac{2}{5} = \frac{\square}{\square}$

8)  $\frac{3}{9} = \frac{\square}{\square}$

3)  $\frac{4}{6} = \frac{\square}{\square}$

6)  $\frac{7}{8} = \frac{\square}{\square}$  9)

$\frac{6}{10} = \frac{\square}{\square}$

Name \_\_\_\_\_

## Cut each Fractional Piece into Several Pieces A

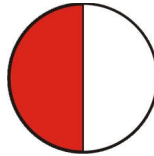
Equivalent fractions  
example:



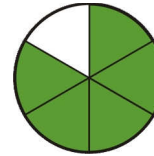
$$\frac{2}{3} = \frac{10}{15}$$

Work out how many pieces each shape has to be cut into. Then draw lines to cut each fractional piece to make new fractions.

Write the equivalent fraction that each shape now shows.



$$\frac{1}{2} = \frac{5}{\square}$$



$$\frac{5}{6} = \frac{20}{\square}$$

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Write  
man

1)

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x5

x4

2)  $\frac{1}{4} = \frac{\square}{16}$

5)  $\frac{3}{10} = \frac{\square}{50}$

8)  $\frac{3}{9} = \frac{18}{\square}$

3)  $\frac{4}{6} = \frac{20}{\square}$

6)  $\frac{7}{8} = \frac{\square}{72}$

9)  $\frac{3}{10} = \frac{30}{\square}$