

Lesson 4: Simplifying Fractions

Time allowed: 30 - 45 mins

Worksheets: 10-14, Template B

Intended outcomes:

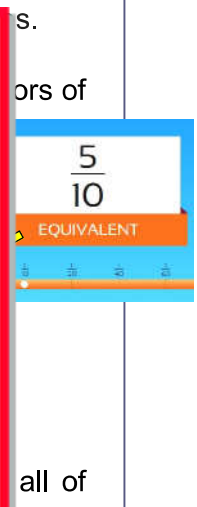
- For the student to be able to simplify fractions by dividing the numerator and denominator by the same number.

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 contexts
- UK LKS2yr3 recognise and show, using diagrams, equivalent fractions with small denominators
 LKS2yr4 recognise and show, using diagrams, families of common equivalent fractions

Essential

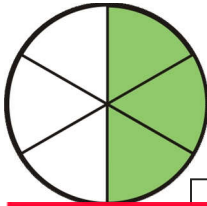
- a) Dis
- ten
- sim
- De
- b) Re
- stu
- the
- c) Use
- d) Loc
- whi
- e) Work through various activities on **Worksheet 11 - 14**.
- f) The **Glue tool** can also be used, by clicking on a fraction repeatedly until the tool will no longer glue any pieces together. This fraction is now in its simplest terms.
- g) **Template B** can be used for you to enter your own fractions for further practice.

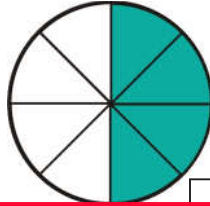



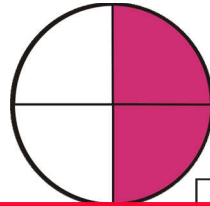
Name _____

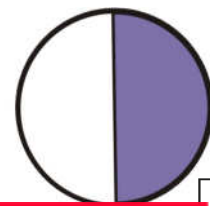
Simplifying Fractions A

Simplifying a fraction is finding the equivalent fraction with the smallest numbers possible in it. This means the fractional pieces have to be largest possible. (Remember the larger the piece the smaller the denominator.) Each of these shapes has the same area shaded. Write the fractions.









The
The

Draw



This is a

PREVIEW

Subscribe today for a whole year's access to ALL our worksheets and videos!

Already a subscriber? Log in to download the full version of this worksheet.

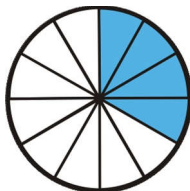


$\frac{1}{2}$

8

Can you see a pattern with simplifying fractions? Divide the top and bottom by the greatest common factor Answers may vary

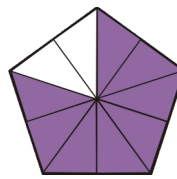
Simplify these fractions below. Draw lines on the shapes.



$$\frac{4}{12} = \square$$



$$\frac{6}{8} = \square$$



$$\frac{8}{10} = \square$$



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

Name _____

Simplifying Fractions B

Steps to simplify a fraction:

- Find a common factor of both the numerator and the denominator.
(Finding the Greatest Common Factor is the quickest method).
- Divide both the numerator and the denominator by this common factor.
- You will know when you have simplified the fraction as far as you can when there are no more common factors that you can divide them by.

E.g.

$$\frac{9}{12} = \frac{3}{4}$$

(+3) (+3)

This fraction cannot be divided again by any other factors so this fraction is in its simplest form.

$$\frac{6}{18} = \frac{2}{6} = \frac{1}{3}$$

(+3) (+2) (+3) (+2)

This fraction needed to be divided again because there was one more common factor. Now it is in its simplest terms.

Sim

1.

2.

3.

4.

$$\frac{3}{18} = \square$$

10. $\frac{6}{12} = \square$

5.

$$\frac{3}{15} = \square$$

11. $\frac{10}{12} = \square$

6.

$$\frac{25}{100} = \square$$

12. $\frac{5}{25} = \square$



This is a

PREVIEW

Subscribe today for a whole year's access to ALL our worksheets and videos!



Already a subscriber? Log in to download the full version of this worksheet.