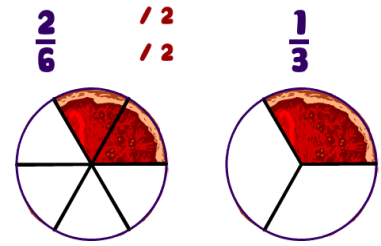


# Simplify Fraction Worksheet

## (Challenging Fractions)



**Objective** Students will reinforce their understanding how to simplify a fraction using visual aides and an [online interactive "powerpoint"](#)

Images and questions that go hand in hand [with a free online "PowerPoint"](#) that explains the answers, step by step, with visual aides at <http://www.mathwarehouse.com/fractions/algebra/how-to-simplify-fraction.php> . (Choose *Challenging* Difficulty)

**Answers to Worksheet along with visual aides are included at the end.**

### Other Fraction Resources

- 1) <http://www.mathwarehouse.com/fractions/>
- 2) [How to Simplify Fractions](#) (Goes hand in hand with this worksheet)
- 3) [Fraction Games Online](#) at TheMathGames.com
- 4) [Fraction Tutorial](#)

© [www.mathwarehouse.com](http://www.mathwarehouse.com) All Rights Reserved

Commercial Use Prohibited

**TEACHERS:** Feel free to make copies of this worksheet for the sole purpose of use in your own classroom. ENJOY!!!

Without prior written permission, redistribution in any other form is prohibited.

More worksheets and activities available at

[www.mathwarehouse.com/classroom/free-math-printable-worksheets.php](http://www.mathwarehouse.com/classroom/free-math-printable-worksheets.php)

**\*Note:** There are 2 versions of this worksheet on how to simplify fractions. This sheet is the one for advanced learners and involves substantially more challenging fractions . Most students will want to [download the other version of the worksheet](#) .

<http://www.mathwarehouse.com/fractions/>

(These questions are explained with an interactive "PowePoint" at <http://www.mathwarehouse.com/fractions/algebra/how-to-simplify-fraction.php> )

**1) Simplify**

$$\frac{3}{9}$$

**2) Simplify**

$$\frac{10}{14}$$

**3) Simplify**

$$\frac{12}{36}$$

**4) Simplify**

$$\frac{10}{15}$$

**5) Simplify**

$$\frac{14}{42}$$

**6) Simplify**

$$\frac{84}{90}$$

**7) Simplify**

$$\frac{60}{72}$$

**8) Simplify**

$$\frac{11}{121}$$

**9) Simplify**

$$\frac{52}{56}$$

**10) Simplify**

$$\frac{112}{120}$$

**11) Simplify**

$$\frac{15}{75}$$

**12) Simplify**

$$\frac{88}{132}$$

**13) Simplify**

$$\frac{90}{96}$$

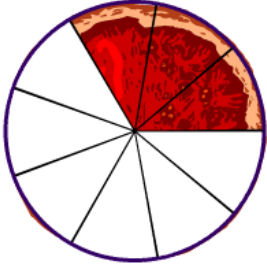
**14) Simplify**

$$\frac{51}{54}$$

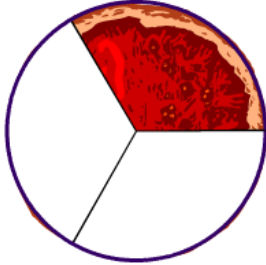
## Answers

### 1) Simplify

$$\frac{3}{9} \quad \begin{array}{l} / 3 \\ / 3 \end{array}$$

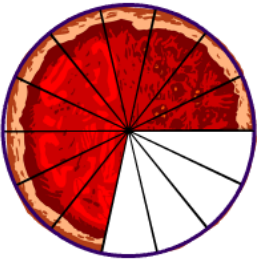


$$\frac{1}{3}$$

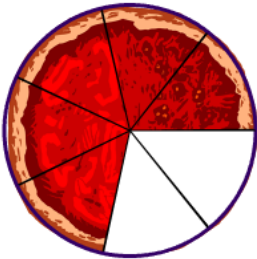


### 2) Simplify

$$\frac{10}{14} \quad \begin{array}{l} / 2 \\ / 2 \end{array}$$

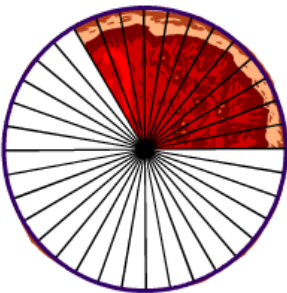


$$\frac{5}{7}$$

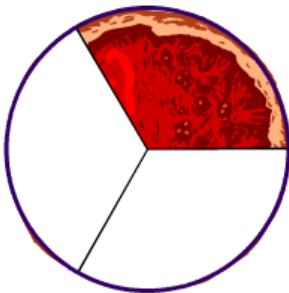


### 3) Simplify

$$\frac{12}{36} \quad \begin{array}{l} / 12 \\ / 12 \end{array}$$



$$\frac{1}{3}$$

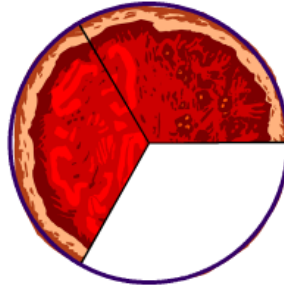


**4) Simplify**

$$\frac{10}{15} \quad \begin{array}{l} / 5 \\ / 5 \end{array}$$

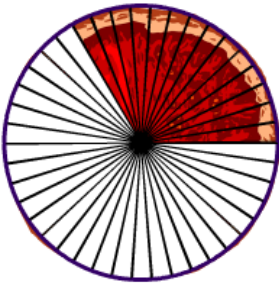


$$\frac{2}{3}$$

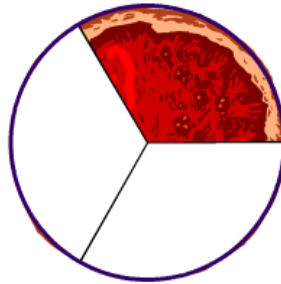


**5) Simplify**

$$\frac{14}{42} \quad \begin{array}{l} / 14 \\ / 14 \end{array}$$

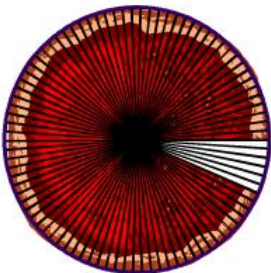


$$\frac{1}{3}$$



**6) Simplify**

$$\frac{84}{90} \quad \begin{array}{l} / 6 \\ / 6 \end{array}$$

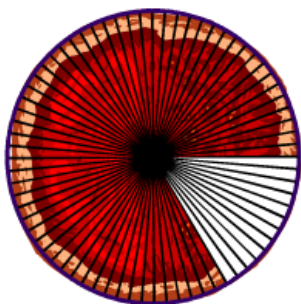


$$\frac{14}{15}$$

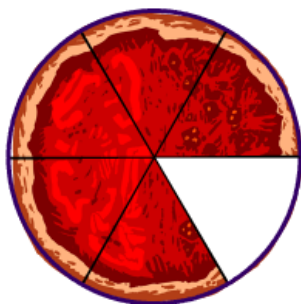


7) Simplify

$$\frac{60}{72} \quad \begin{array}{l} / 12 \\ / 12 \end{array}$$

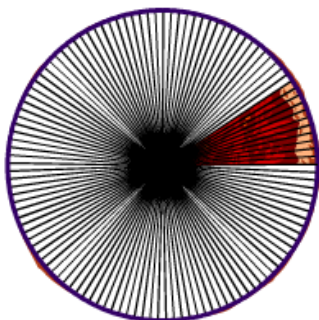


$$\frac{5}{6}$$

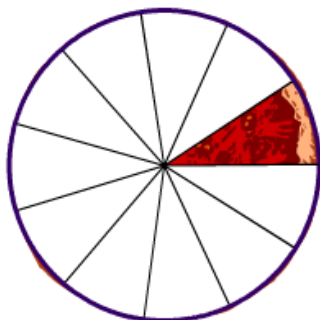


8) Simplify

$$\frac{11}{121} \quad \begin{array}{l} / 11 \\ / 11 \end{array}$$

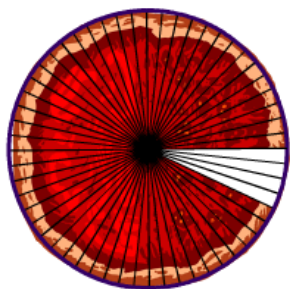


$$\frac{1}{11}$$

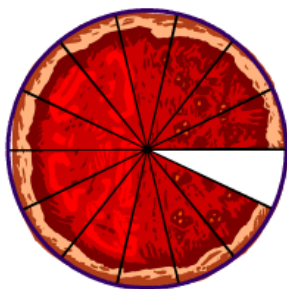


9) Simplify

$$\frac{52}{56} \quad \begin{array}{l} / 4 \\ / 4 \end{array}$$

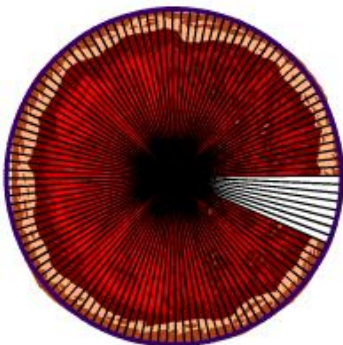


$$\frac{13}{14}$$



**10) Simplify**

$$\frac{112}{120} \quad \begin{array}{l} / 8 \\ / 8 \end{array}$$

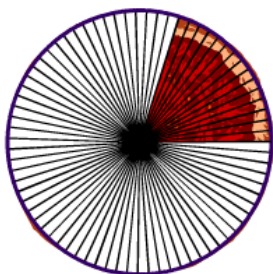


$$\frac{14}{15}$$

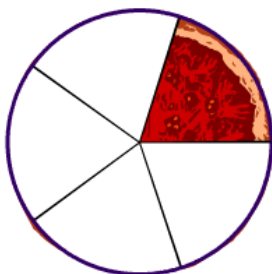


**11) Simplify**

$$\frac{15}{75} \quad \begin{array}{l} / 15 \\ / 15 \end{array}$$



$$\frac{1}{5}$$





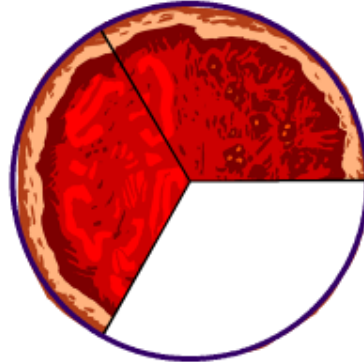
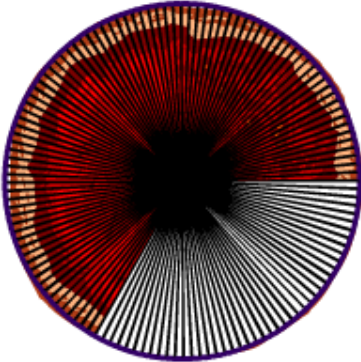
### 12) Simplify

$$\frac{88}{132}$$

/ 44

/ 44

$$\frac{2}{3}$$



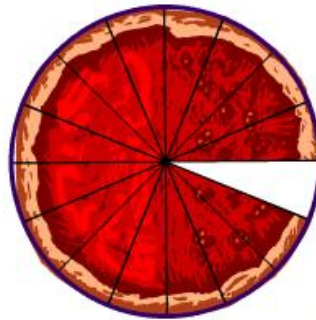
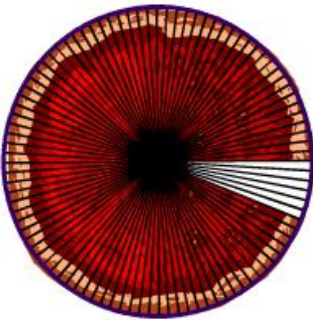
### 13) Simplify

$$\frac{90}{96}$$

/ 6

/ 6

$$\frac{15}{16}$$



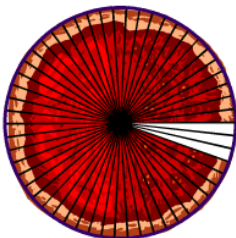
### 14) Simplify

$$\frac{51}{54}$$

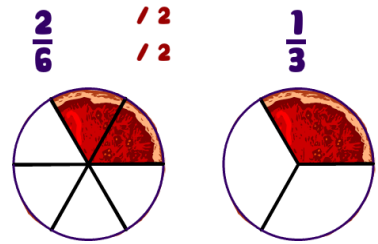
/ 3

/ 3

$$\frac{17}{18}$$



# Simplify Fraction Worksheet



Images and questions that go hand in hand [with a free online "PowerPoint"](#) that explains the answers, step by step, with visual aides at <http://www.mathwarehouse.com/fractions/algebra/how-to-simplify-fraction.php> . (Choose *Challenging* Difficulty)

## Other Fraction Resources

- 1) <http://www.mathwarehouse.com/fractions/>
- 2) [How to Simplify Fractions](#) (Goes hand in hand with this worksheet)
- 3) [Fraction Games Online](#) at TheMathGames.com
- 4) [Fraction Tutorial](#)

© [www.mathwarehouse.com](http://www.mathwarehouse.com) All Rights Reserved

Commercial Use Prohibited

**TEACHERS:** Feel free to make copies of this worksheet for the sole purpose of use in your own classroom. ENJOY!!!

Without prior written permission, redistribution in any other form is prohibited.

More worksheets and activities available at

[www.mathwarehouse.com/classroom/free-math-printable-worksheets.php](http://www.mathwarehouse.com/classroom/free-math-printable-worksheets.php)