MATH

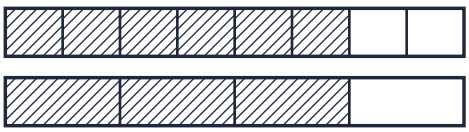
Simplifying fractions

Name _____ Date _____

I can write a fraction in simplest form.

1 How it works

A fraction is in simplest form when the top and the bottom share no factor except 1. To simplify, divide the top and the bottom by the same number. For 6/8, divide both by 2 to get 3/4. Dividing by the greatest common factor gets you there in one step.



$$\frac{6}{8} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \frac{3}{4}$$

2 Divide the top and the bottom

The hint tells you what to divide by.

1. $\frac{2}{4} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \frac{\square}{\square}$
2. $\frac{6}{9} \begin{matrix} \div 3 \\ \div 3 \end{matrix} = \frac{\square}{\square}$
3. $\frac{35}{40} \begin{matrix} \div 5 \\ \div 5 \end{matrix} = \frac{\square}{\square}$
4. $\frac{10}{16} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \frac{\square}{\square}$
5. $\frac{3}{9} \begin{matrix} \div 3 \\ \div 3 \end{matrix} = \frac{\square}{\square}$
6. $\frac{10}{12} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \frac{\square}{\square}$
7. $\frac{4}{12} \begin{matrix} \div 4 \\ \div 4 \end{matrix} = \frac{\square}{\square}$
8. $\frac{12}{15} \begin{matrix} \div 3 \\ \div 3 \end{matrix} = \frac{\square}{\square}$
9. $\frac{6}{10} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \frac{\square}{\square}$
10. $\frac{2}{8} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \frac{\square}{\square}$
11. $\frac{12}{16} \begin{matrix} \div 4 \\ \div 4 \end{matrix} = \frac{\square}{\square}$
12. $\frac{3}{6} \begin{matrix} \div 3 \\ \div 3 \end{matrix} = \frac{\square}{\square}$

How did I do? ☆ ☆ ☆

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Simplest form

Name _____ Date _____

I can write a fraction in simplest form without a hint.

1 Write each fraction in simplest form

1. $\frac{24}{40} = \frac{\square}{\square}$
2. $\frac{3}{24} = \frac{\square}{\square}$
3. $\frac{9}{24} = \frac{\square}{\square}$
4. $\frac{5}{25} = \frac{\square}{\square}$
5. $\frac{40}{48} = \frac{\square}{\square}$
6. $\frac{21}{56} = \frac{\square}{\square}$
7. $\frac{16}{20} = \frac{\square}{\square}$
8. $\frac{27}{36} = \frac{\square}{\square}$
9. $\frac{12}{18} = \frac{\square}{\square}$
10. $\frac{7}{28} = \frac{\square}{\square}$
11. $\frac{6}{8} = \frac{\square}{\square}$
12. $\frac{8}{64} = \frac{\square}{\square}$

2 Find the GCF, then simplify

GCF = greatest common factor

Fraction	GCF of top and bottom	Simplest form
$\frac{10}{30}$		
$\frac{24}{36}$		
$\frac{8}{20}$		
$\frac{12}{30}$		
$\frac{20}{30}$		

How did I do? ☆ ☆ ☆

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Equal fractions

Name _____ Date _____

I can tell when two fractions are equal.

1 Circle the equal fractions

Simplify each one to check.

Circle the fractions equal to $\frac{1}{2}$

$\frac{7}{12}$ $\frac{7}{14}$ $\frac{5}{10}$ $\frac{3}{6}$ $\frac{2}{6}$ $\frac{3}{8}$ $\frac{2}{4}$ $\frac{9}{16}$

Circle the fractions equal to $\frac{3}{4}$

$\frac{23}{32}$ $\frac{21}{28}$ $\frac{22}{28}$ $\frac{18}{24}$ $\frac{13}{16}$ $\frac{6}{8}$ $\frac{19}{24}$ $\frac{27}{36}$

2 Is it in simplest form?

Circle yes or no.

1. $\frac{15}{24}$ yes no
2. $\frac{3}{8}$ yes no
3. $\frac{2}{16}$ yes no
4. $\frac{21}{24}$ yes no
5. $\frac{7}{8}$ yes no
6. $\frac{7}{10}$ yes no

3 Think about it

1. Why is 5/9 already in simplest form?
2. Simplify 50/100.
3. Zara says 4/6 and 6/9 are equal. Is she right?
4. Write a fraction that simplifies to 3/5.

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can use fractions to solve problems.

1 Read, think, answer

Show your thinking in the box.

1 A cake is cut into 12 equal slices. Omar eats 4 of them. What fraction of the cake did Omar eat? Write it in simplest form.

Answer:

2 A class has 24 students. 20 of them walk to school. What fraction of the class walks to school, in simplest form?

Answer:

3 Zara got 15 out of 20 questions right on a quiz. Write the score as a fraction in simplest form.

Answer:

4 I am equal to 8/12. My denominator is 3. What fraction am I?

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: simplifying fractions

1 Page 1

Simplest form: 1) 2/4 = 1/2; 2) 6/9 = 2/3; 3) 35/40 = 7/8; 4) 10/16 = 5/8; 5) 3/9 = 1/3; 6) 10/12 = 5/6; 7) 4/12 = 1/3; 8) 12/15 = 4/5; 9) 6/10 = 3/5; 10) 2/8 = 1/4; 11) 12/16 = 3/4; 12) 3/6 = 1/2.

2 Page 2

Simplest form: 1) 3/5; 2) 1/8; 3) 3/8; 4) 1/5; 5) 5/6; 6) 3/8; 7) 4/5; 8) 3/4; 9) 2/3; 10) 1/4; 11) 3/4; 12) 1/8.

GCF table: 10/30: GCF 10, 1/3; 24/36: GCF 12, 2/3; 8/20: GCF 4, 2/5; 12/30: GCF 6, 2/5; 20/30: GCF 10, 2/3.

3 Page 3

Circle: equal to 1/2: 7/14, 5/10, 3/6, 2/4; equal to 3/4: 21/28, 18/24, 6/8, 27/36.

In simplest form: 1) no (5/8); 2) yes; 3) no (1/8); 4) no (7/8); 5) yes; 6) yes.

Think: 1) The only common factor of 5 and 9 is 1; 2) 1/2; 3) Yes. Both simplify to 2/3; 4) For example 6/10, 9/15 or 12/20.

4 Page 4: word problems

1) 4/12 = 1/3

2) 20/24 = 5/6

3) 15/20 = 3/4

4) 2/3

5 Teaching tip

If a child cannot spot the greatest common factor, let them divide by 2, 3 or 5 again and again until nothing more works. Several small steps reach the same answer.

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