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Modified In-School Off-School Approach Modules (MISOSA)  
**Distance Education for Elementary Schools**  
**SELF-INSTRUCTIONAL MATERIALS**



**FRACTIONS IN  
LOWEST TERMS**



Department of Education  
**BUREAU OF ELEMENTARY EDUCATION**  
2nd Floor Bonifacio Building  
DepEd Complex, Meralco Avenue  
Pasig City

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## FRACTIONS IN LOWEST TERMS

**Objective:** Change fractions to lowest terms



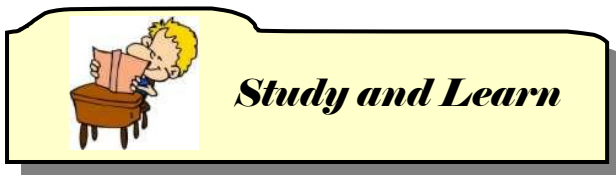
Match the numbers in Column A with the greatest common factor of the two numbers found in Column B.

A

- 1) 24 and 20
- 2) 30 and 36
- 3) 45 and 50
- 4) 21 and 35
- 5) 16 and 40

B

- a. 8
- b. 4
- c. 7
- d. 5
- e. 6



Study the problem below.

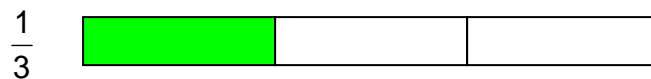
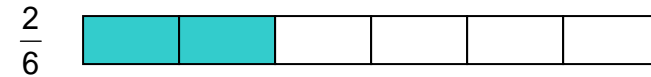
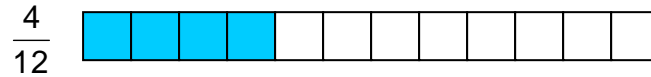
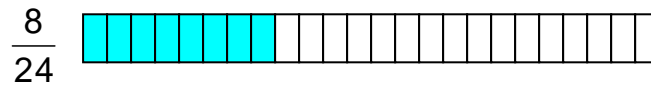
Sleep is an important part of a good fitness plan. Therese Marie sleeps 8 hours or  $\frac{8}{24}$  in a day.

What other fraction is equivalent to  $\frac{8}{24}$ ?





Look at the strips of paper that show the fraction in its lowest term.



Among the fractions presented in the fraction strips, what is the lowest terms or simplest form of  $\frac{8}{24}$ ?

*The simplest form of  $\frac{8}{24}$  is  $\frac{1}{3}$ .*

So, Therese Marie sleeps  $\frac{1}{3}$  of the day.

You can find the simplest form of a fraction by dividing the numerator and the denominator by the greatest common factor (GCF).

$$\frac{8 \div 8}{24 \div 8} = \frac{1}{3}$$

Why is  $\frac{1}{3}$  considered to be in simplest form? *The numerator is 1 and both the numerator and denominator have no common factor except one.*

Let's try other examples:

$$\frac{3}{15} = \frac{3 \div 3}{15 \div 3} = \frac{1}{5}$$

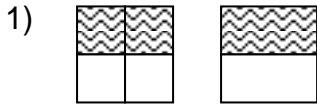
$$\frac{4}{6} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$



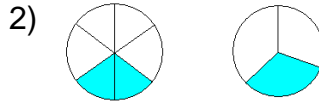


### Try These

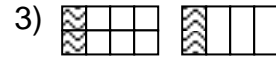
Use the illustrations to complete the following:



$$\frac{2}{4} = \frac{\quad}{2}$$



$$\frac{2}{6} = \frac{\quad}{\quad}$$



$$\frac{2}{8} = \frac{\quad}{\quad}$$



### Wrap Up

A fraction is in simplest form when the numerator and denominator have no common factor other than 1. You can find the simplest form of a fraction by dividing the numerator and the denominator by their greatest common factor.



### On Your Own

Write each fraction in simplest form.

- 1)  $\frac{8}{18}$       2)  $\frac{12}{36}$       3)  $\frac{10}{24}$       4)  $\frac{6}{10}$       5)  $\frac{14}{16}$   
6)  $\frac{5}{30}$       7)  $\frac{8}{26}$       8)  $\frac{13}{26}$       9)  $\frac{18}{36}$       10)  $\frac{25}{100}$

Check your answer with the answer key. If you get...

- 8-10    Excellent! You may now proceed to the next lesson.  
5-7     You need to review the process you missed.  
0-4     You need to repeat the whole process. Ask your teacher or elder to help you.



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**Key to Correction**  
**FRACTIONS IN LOWEST TERMS**

**REVIEW**

- 1) b
- 2) e
- 3) d
- 4) c
- 5) a

**TRY THESE**

- 1)  $\frac{1}{2}$
- 2)  $\frac{1}{3}$
- 3)  $\frac{1}{4}$

**ON YOUR OWN**

- 1)  $\frac{4}{9}$
- 2)  $\frac{1}{3}$
- 3)  $\frac{5}{12}$
- 4)  $\frac{3}{5}$
- 5)  $\frac{7}{8}$
- 6)  $\frac{1}{6}$
- 7)  $\frac{4}{13}$
- 8)  $\frac{1}{2}$
- 9)  $\frac{1}{2}$
- 10)  $\frac{1}{4}$

