

Fraction simplification
Course questions

Name
Date

1. What means to simplify a fraction ?

Simplifying a fraction means replacing it with an equivalent fraction whose numerator and denominator are the smallest possible.

2. How do we get an equivalent fraction ?

By multiplying or dividing the numerator and the denominator of a fraction by the same number

3. What should we do if we have a common factors from the top and the bottom?

Remove both of them to simplify the fraction

4. What means GCD?

The greatest common divisor

5. Which method allow to find the GCD?

Euclid's algorithm



Fraction simplification

Exercises - Part I

Write as a simplified fraction

Name

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$$\frac{2}{8} = \frac{1}{4}$$

$$\frac{14}{8} = \frac{7}{4}$$

$$\frac{4}{20} = \frac{1}{5}$$

$$\frac{6}{15} = \frac{2}{5}$$

$$\frac{20}{30} = \frac{2}{3}$$

$$\frac{3}{33} = \frac{1}{11}$$

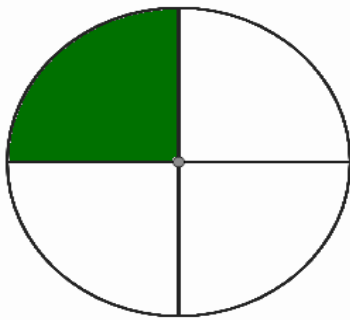
$$\frac{2}{28} = \frac{1}{14}$$

$$\frac{7}{9} = \frac{7}{9}$$

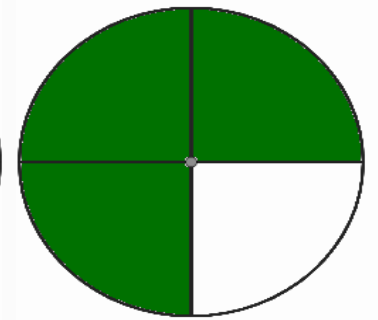
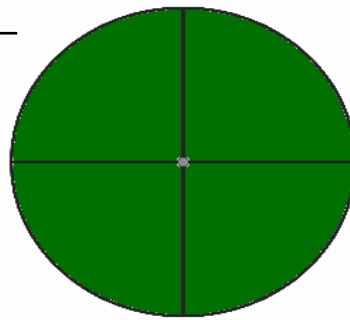
Fraction simplification
 Visual exercises – Part I
 Color the quantity

Name _____
 Date _____

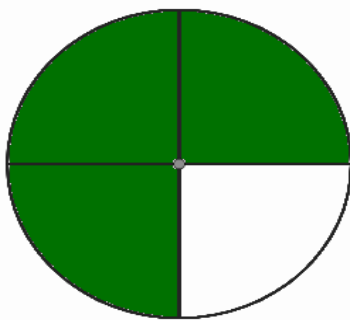
$$\frac{2}{8}$$



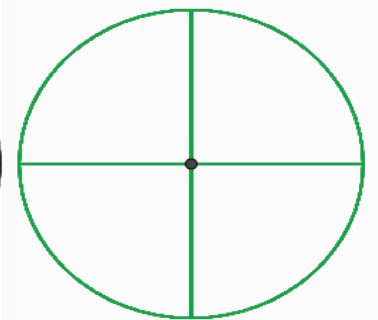
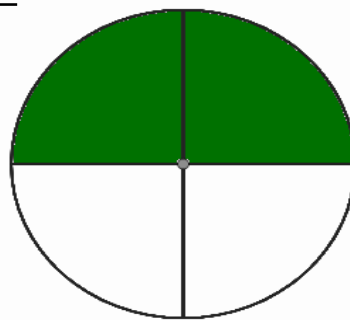
$$\frac{14}{8}$$



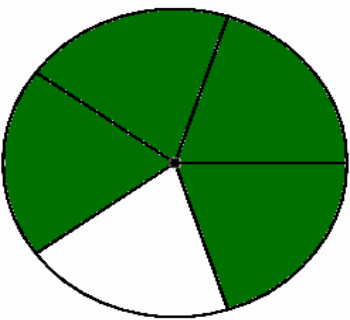
$$\frac{12}{16}$$



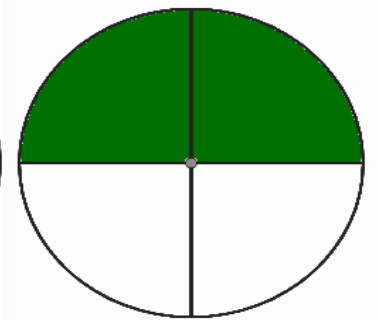
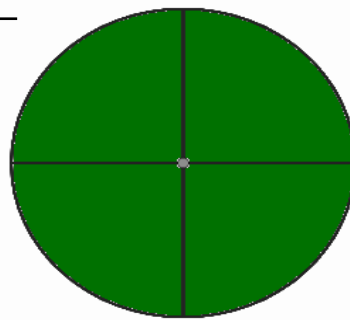
$$\frac{13}{26}$$



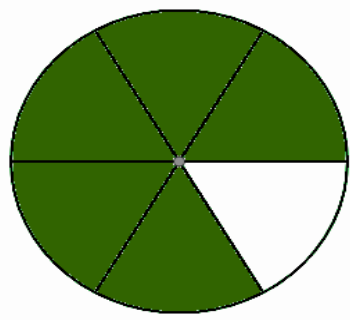
$$\frac{40}{50}$$



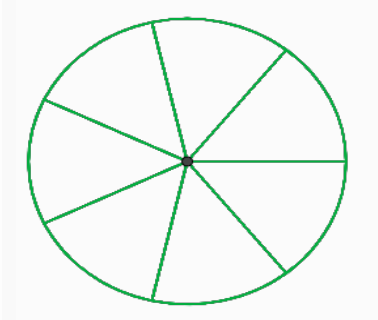
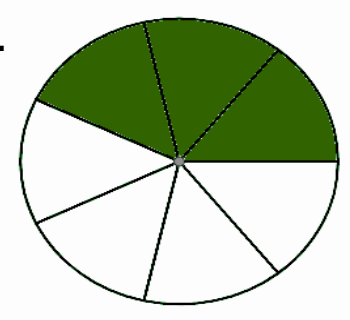
$$\frac{42}{28}$$



$$\frac{15}{18}$$



$$\frac{909}{2121}$$





Fraction simplification
Exercises - Part II
Write as a simplified fraction

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$$\frac{16}{80} = \frac{1}{5}$$

$$\frac{55}{75} = \frac{11}{15}$$

$$\frac{27}{42} = \frac{9}{14}$$

$$\frac{66}{99} = \frac{2}{3}$$

$$\frac{14}{91} = \frac{2}{13}$$

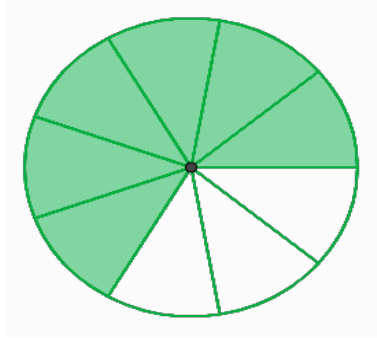
$$\frac{99}{66} = \frac{3}{2}$$

$$\frac{12}{96} = \frac{1}{8}$$

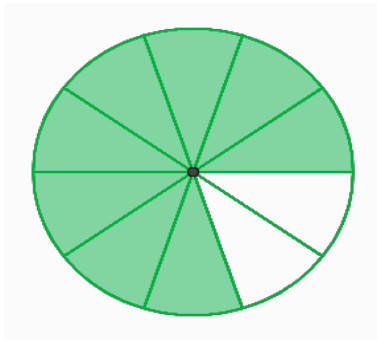
$$\frac{909}{2121} = \frac{3}{7}$$

Fraction simplification
Visual exercises – Part II
Write as a simplified fraction

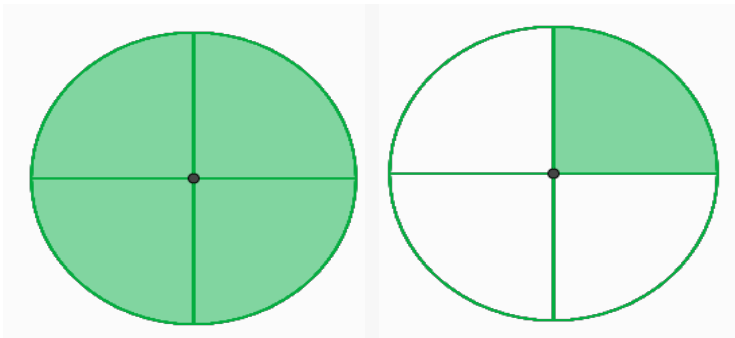
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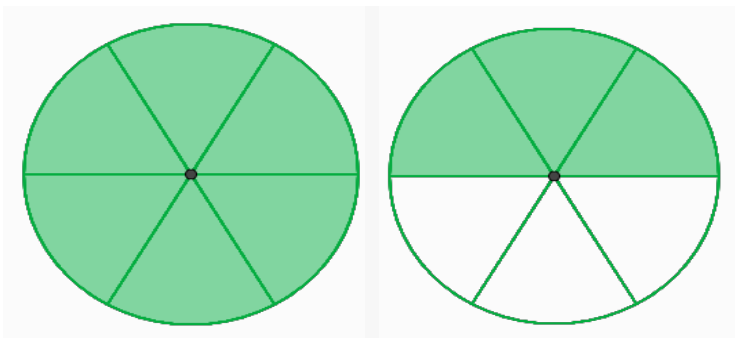
$$= \frac{2}{3}$$



$$= \frac{4}{5}$$



$$= \frac{5}{4}$$



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