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# ОСНОВНОЕ СВОЙСТВО ДРОБИ.

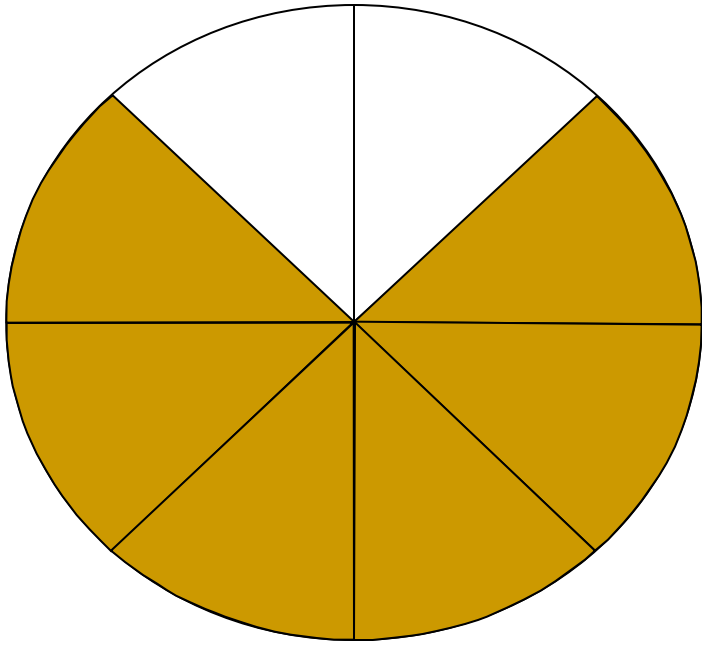
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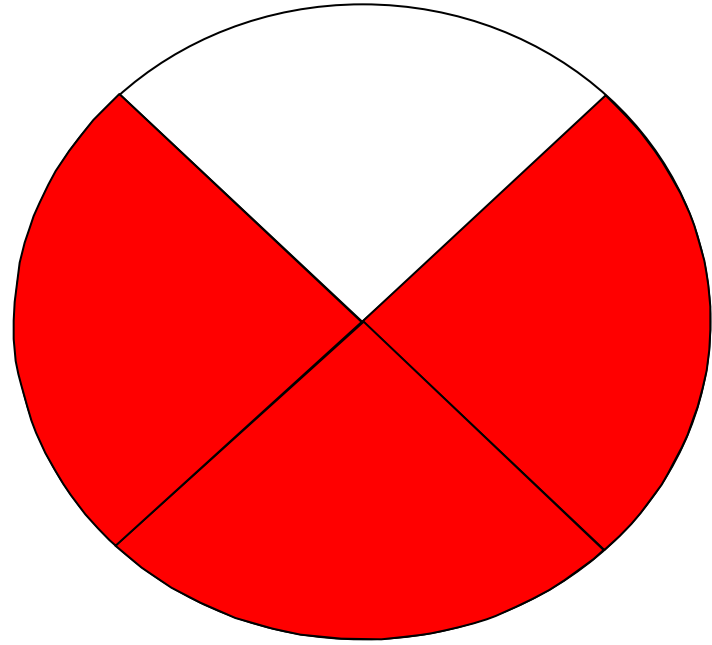
# УСТНАЯ РАБОТА:

№ 222(а,б), 226.

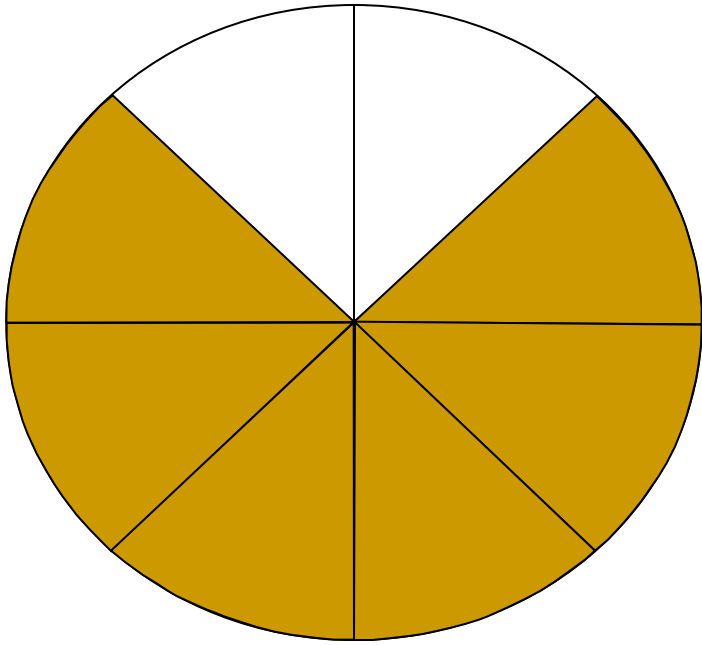
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$$\frac{6}{8}$$

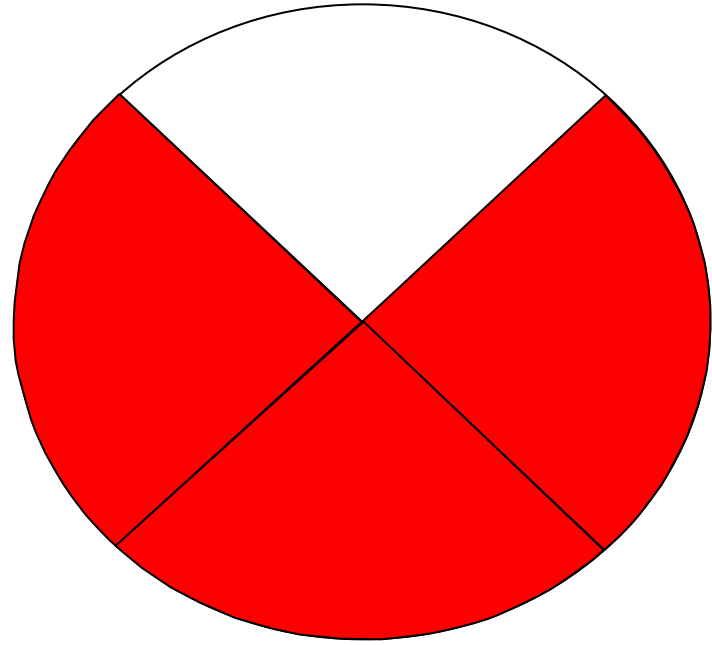


$$\frac{3}{4}$$



$$\frac{6}{8}$$

=



$$\frac{3}{4}$$

# Основное свойство дроби

$$\frac{6}{8} = \frac{3}{4}$$

Diagram illustrating the simplification of the fraction  $\frac{6}{8}$  to  $\frac{3}{4}$  by dividing both the numerator and denominator by 2. The operation is indicated by a  $\div 2$  above the fraction and a  $\div 2$  below it. Curved arrows show the division of 6 by 2 to get 3 and 8 by 2 to get 4.

$$\frac{6}{8} = \frac{3}{4}$$

Diagram illustrating the expansion of the fraction  $\frac{3}{4}$  to  $\frac{6}{8}$  by multiplying both the numerator and denominator by 2. The operation is indicated by a  $\cdot 2$  above the fraction and a  $\cdot 2$  below it. Curved arrows show the multiplication of 3 by 2 to get 6 and 4 by 2 to get 8.

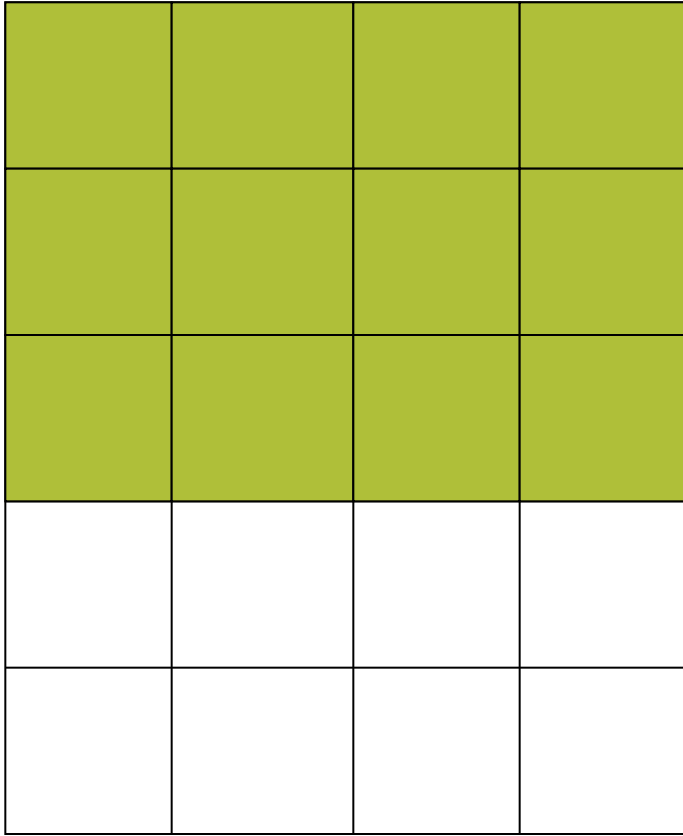
# Основное свойство дроби

- $$\frac{6}{8} = \frac{6:2}{8:2} = \frac{3}{4} ;$$

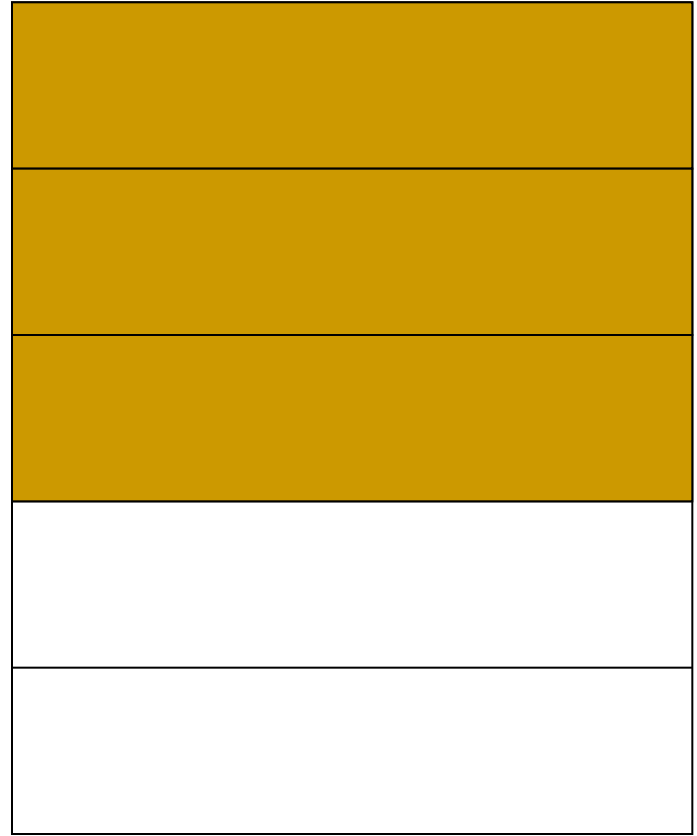
$$\frac{3}{4} = \frac{3 \cdot 2}{4 \cdot 2} = \frac{6}{8} .$$

# Основное свойство дроби


# Основное свойство дроби



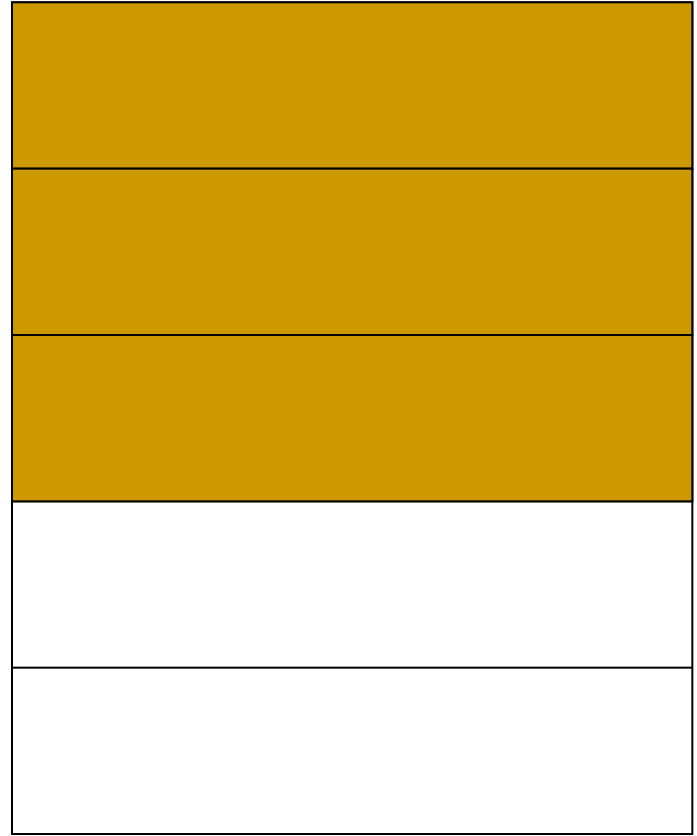
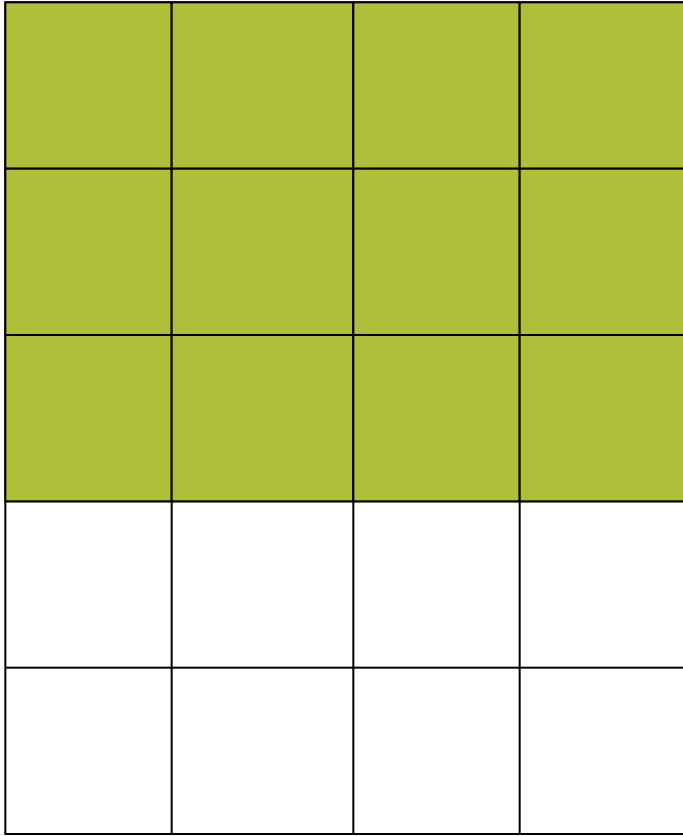
$$\frac{12}{20}$$



$$\frac{3}{5}$$



# Основное свойство дроби



$$\frac{12}{20}$$

=

$$\frac{3}{5}$$

# Основное свойство дроби

$$\frac{12}{20} = \frac{3}{5}$$

Diagram illustrating the simplification of the fraction  $\frac{12}{20}$  to  $\frac{3}{5}$  by dividing both the numerator and denominator by 4. The operation is indicated by  $\div 4$  above the fraction and  $\div 4$  below it. Curved arrows show the transformation from the original fraction to the simplified one.

$$\frac{12}{20} = \frac{3}{5}$$

Diagram illustrating the expansion of the fraction  $\frac{3}{5}$  to  $\frac{12}{20}$  by multiplying both the numerator and denominator by 4. The operation is indicated by  $\cdot 4$  above the fraction and  $\cdot 4$  below it. Curved arrows show the transformation from the original fraction to the expanded one.

# Основное свойство дроби

- $$\frac{12}{20} = \frac{12:4}{20:4} = \frac{3}{5} ;$$

$$\frac{3}{5} = \frac{3 \cdot 4}{5 \cdot 4} = \frac{12}{20} .$$

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Если числитель и знаменатель дроби умножить или разделить на одно и то же натуральное число, то получится равная ей дробь.

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**Умножьте числитель и знаменатель каждой дроби на 2.**

$$\frac{2}{3} = \frac{2 \cdot 2}{3 \cdot 2} = \frac{4}{6};$$

$$\frac{3}{5}; \frac{4}{7}; \frac{7}{10}; \frac{9}{25}; \frac{17}{100}.$$

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**Разделите числитель и знаменатель каждой дроби на 3.**

$$\frac{3}{9} = \frac{3:3}{9:3} = \frac{1}{3} ;$$

$$\frac{12}{15} ; \frac{9}{21} ; \frac{27}{30} ; \frac{45}{60} ; \frac{36}{90} .$$

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# ЗАКРЕПЛЕНИЕ:

1. Устно: № 211, 212(а,б), 219;
  2. № 216, 217, 221;
  3. Повторение: № 224, 231.
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# ИТОГ УРОКА:

Вопросы к п.8 стр.35.

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# ДОМАШНЕЕ ЗАДАНИЕ:

П.8, № 237, 239(а), 241(а),  
240(б,г);

Принести циркуль, линейку.

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Спасибо за внимание.

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