

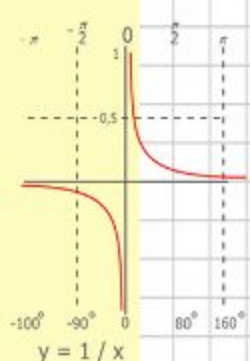
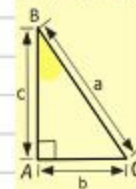
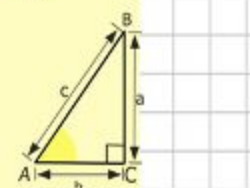
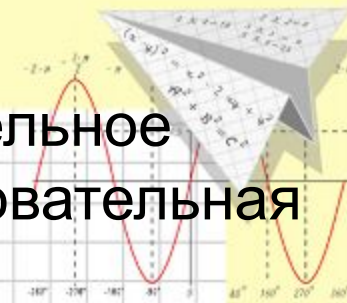
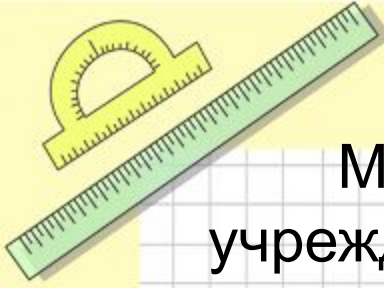
# Математик

Муниципальное казенное общеобразовательное учреждение Сайдыпская основная общеобразовательная школа.

## Устный счет на уроках математики в 5 классе

Учитель математики  
МКОУ Сайдыпская ООШ  
Николаев Василий  
Николаевич

с. Сайдып 2012 год.



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 8400 \\ \hline 105000 \end{array}$$

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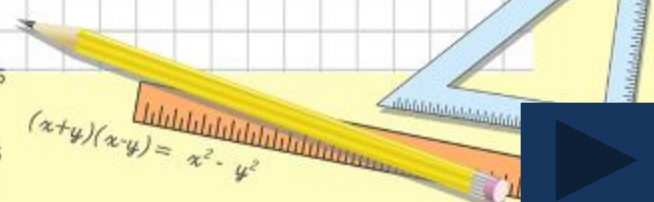
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$



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$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$
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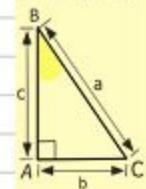
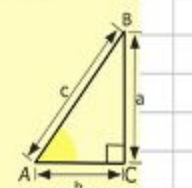
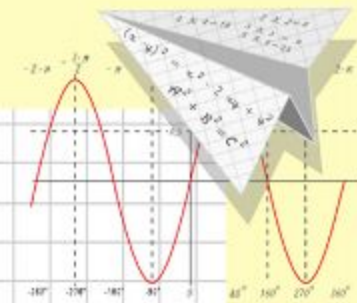
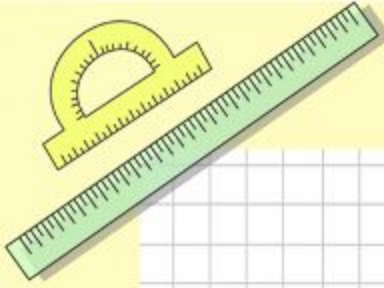
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# Математик

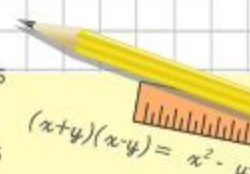
## а Актуализация

Устный счет на уроках математики является способом направленного и всестороннего развития способностей детей. Систематическое выполнение устных упражнений позволяет восстанавливать, поддерживать и умножать природные способности к восприятию, запоминанию и обработке информации, способствует поддержанию и укреплению всей умственной работоспособности, организованности, целеустремленности. Я использую возможности устного счета для развития математических способностей учащихся пятого класса.



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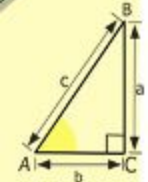
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# Оглавление

- Чтение натуральных чисел.
- Действие с натуральными числами
- Шкалы и координаты
- Сравнение натуральных чисел
- Решение уравнений
- Умножение натуральных чисел
- Деление натуральных чисел
- Порядок выполнения действий
- Площадь прямоугольника
- Объем прямоугольного параллелепипеда
- Доли. Обыкновенные дроби
- Сравнение дробей
- Умножение и деление десятичных дробей на натуральные числа
- Умножение десятичных дробей
- Деление десятичных дробей
- Проценты



$$\begin{array}{r} \frac{1}{2} 500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$



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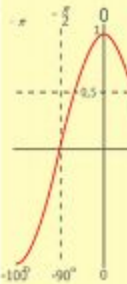
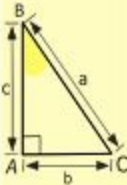
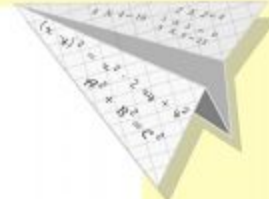
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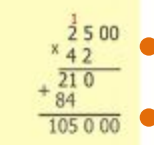
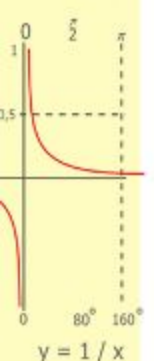
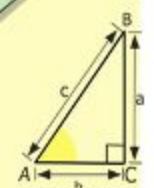
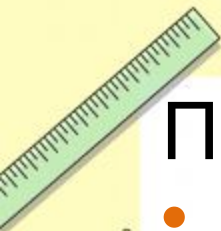
# Чтение натуральных чисел

Прочитайте числа:

- 123 12
- 43 211
- 334 563 456
- 75 342 345
- 10 012
- 10 101 010
- 225 500 002
- 10 000 001

Запишите в тетради числами:

- Сто восемьдесят один.
- Восемь миллионов сорок пять.
- Триста восемь тысяч восемьдесят девять.
- Сорок миллионов девятьсот двадцать одна тысяча один .



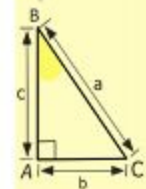
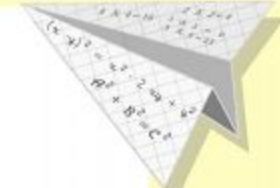
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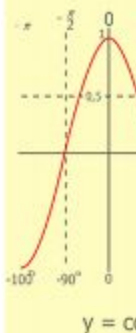
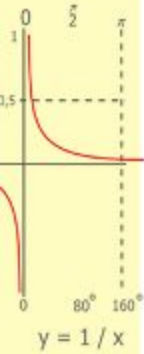
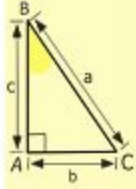
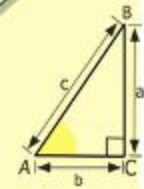
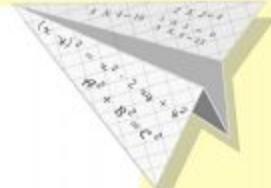
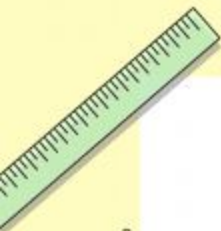


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# Действия с натуральными

## числами



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# Шкалы и координаты

*Выразите в сантиметрах:*

$$2 \text{ м } 50 \text{ см} = 250 \text{ см}; \quad 2 \text{ м } 5 \text{ см} = 205 \text{ см};$$

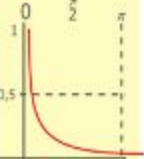
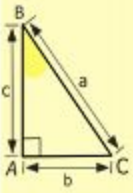
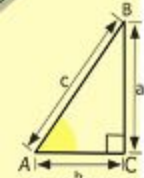
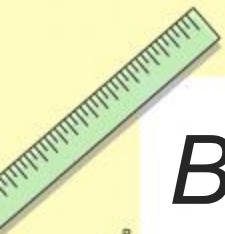
$$4 \text{ дм } 8 \text{ см} = 48 \text{ см}; \quad 460 \text{ мм} = 46 \text{ см};$$

*Выразите в*

*метрах:*

$$1 \text{ км } 600 \text{ м} = 1600 \text{ м}; \quad 4 \text{ км } 30 \text{ м} = 4030 \text{ м};$$

$$7 \text{ км } 5 \text{ м} = 7005 \text{ м}; \quad 3850 \text{ дм} = 385 \text{ м};$$



$$y = 1/x$$

$$y = \cos$$

$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 840 \\ \hline 10500 \end{array}$$

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# Шкалы и координаты

Какие числа соответствуют точкам на координатной шкале?

20

60

23

28

31

37

40

46

A

B

C

D

E

F

$$\begin{array}{r} 210 \\ + 84 \\ \hline 105000 \end{array}$$

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# Сравнение натуральных чисел

$$54 < 55$$

$$12\ 544 > 12\ 534$$

$$20\ 011\ 125 < 20\ 100\ 052$$

$$2\ 374 > 2\ 365$$

$$65\ 934 > 62\ 156$$

Назовите все числа, которые лежат между данными числами:

102

103

104

105

59958

59959

59960

59961

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# Решение уравнений

$$x = 542$$

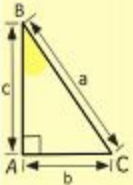
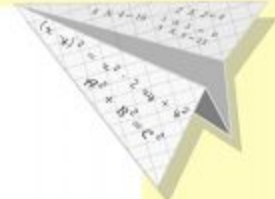
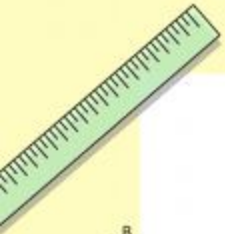
$$x = 24$$

$$x = 95$$

$$x = 1339$$

$$x = 10$$

$$x = 22$$



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# Умножение натуральных чисел

Заполните таблицу:

Множитель		6	11	23		33	6
Множитель	8			4	2	3	
Произведение	96	54	55		18		138



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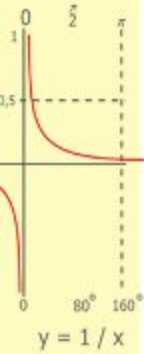
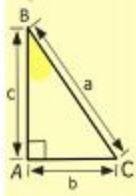
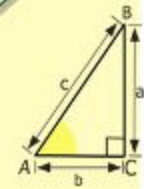
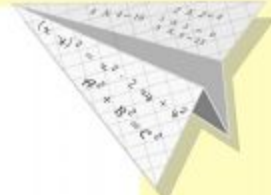
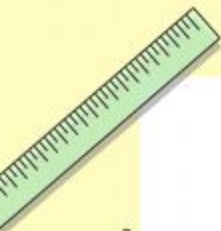
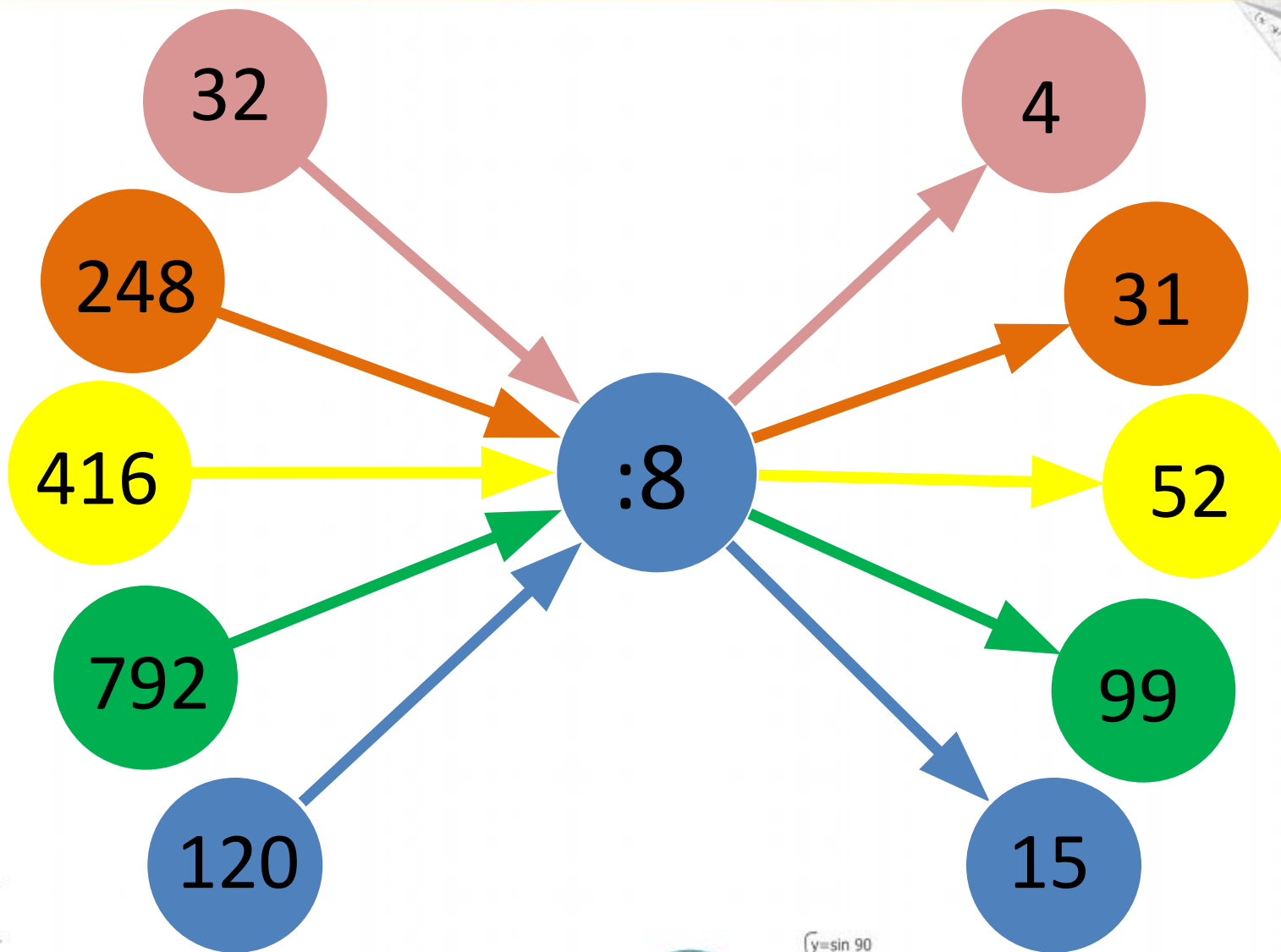
$$x = 70$$

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# Деление натуральных чисел



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# Порядок выполнения действий

$$5 * 3 + 8 = 23$$

$$12 * 3 - 2 * 9 = 18$$

$$56 - (20 + 19) = 17$$

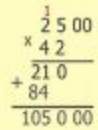
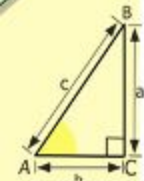
$$35 * 2 : 7 = 10$$

$$18 - 32 : 2 = 2$$

$$12 : 4 + 23 * 4 = 95$$

$$(64 - 39) + (48 + 13) = 86$$

$$8 * (17 - 15) = 16$$



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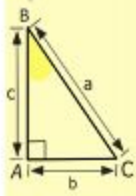
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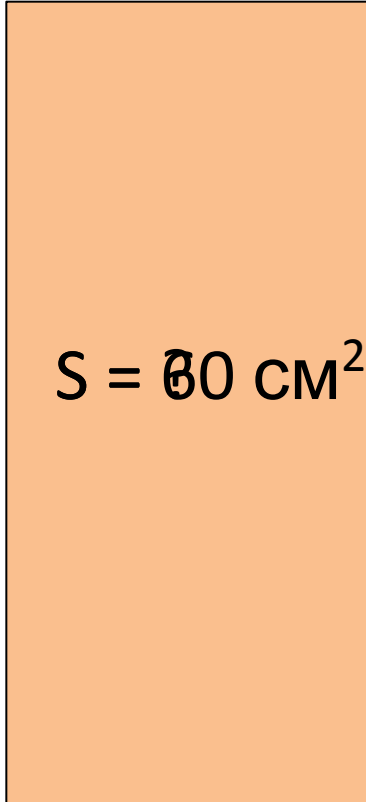
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# Площадь прямоугольника

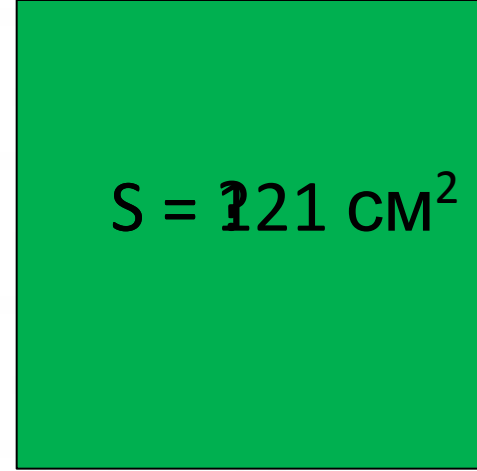
Вычислите площадь:

4 см

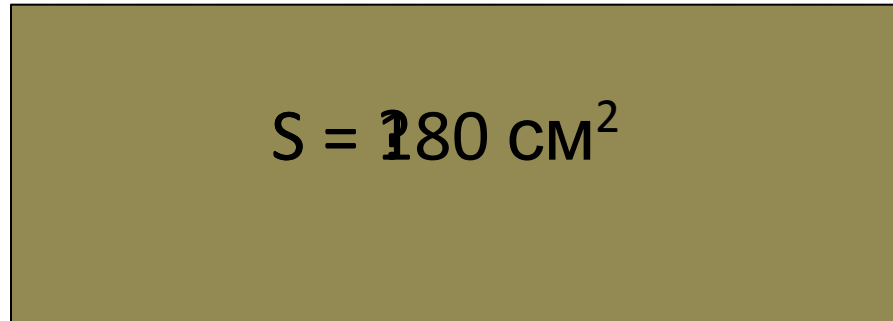


15 см

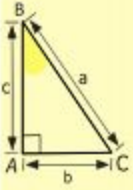
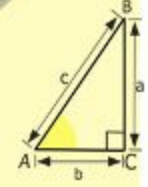
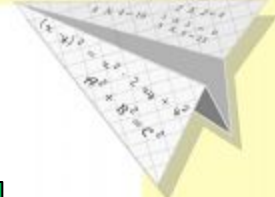
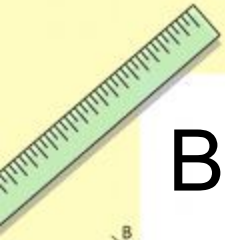
11 см



2 дм



9 см



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 8400 \\ \hline 105000 \end{array}$$

- 2 x 2 = 4
- 3 x 3 = 9
- 4 x 4 = 16
- 5 x 5 = 25
- 6 x 6 = 36
- 7 x 7 = 49
- 8 x 8 = 64
- 9 x 9 = 81



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

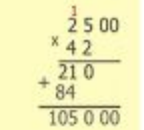
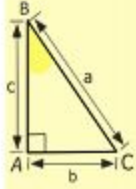
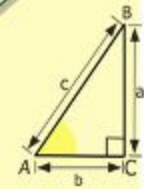
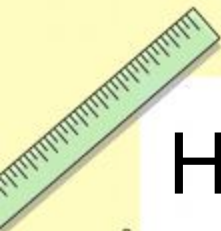
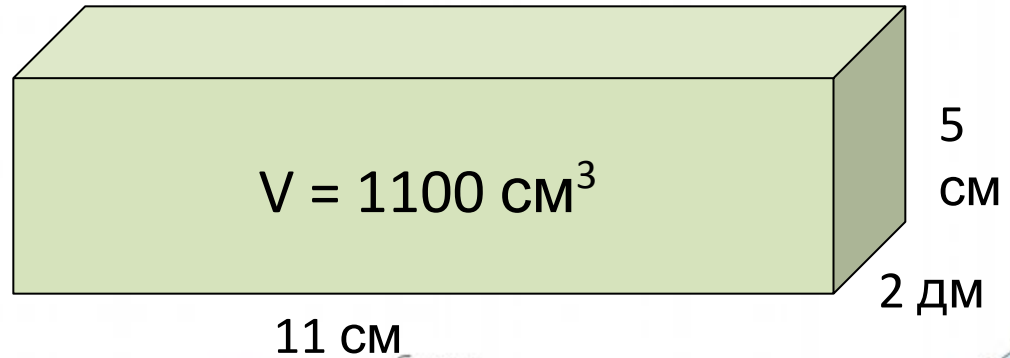
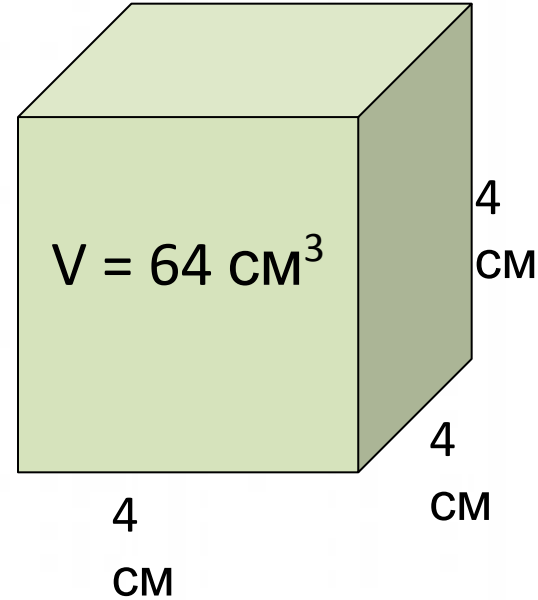
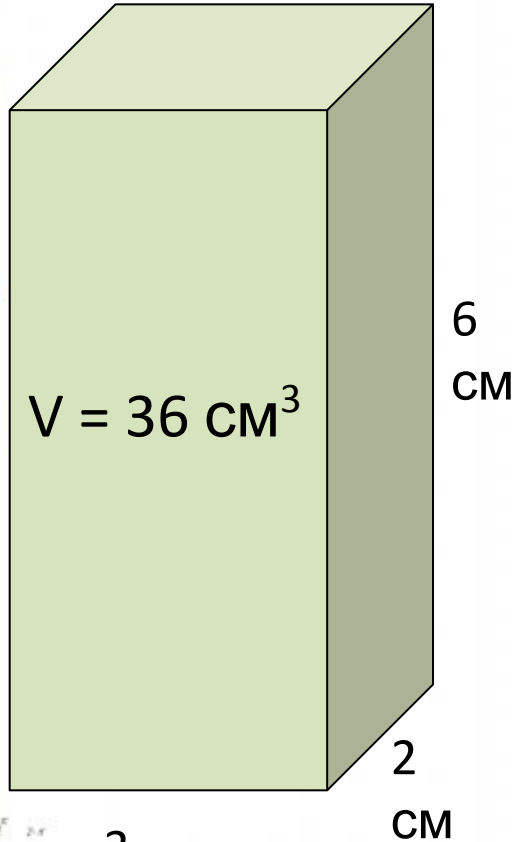
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



# Объем прямоугольного параллелепипеда

Найдите объем фигур:



- $2 \times 2 = 4$
- $3 \times 3 = 9$
- $4 \times 4 = 16$
- $5 \times 5 = 25$
- $6 \times 6 = 36$
- $7 \times 7 = 49$
- $8 \times 8 = 64$
- $9 \times 9 = 81$



$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$

$\sin 90^\circ = 1$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ x = 70 \end{cases}$$

$(x+y)(x-y) = x^2 - y^2$

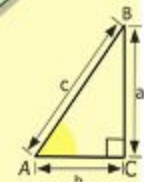
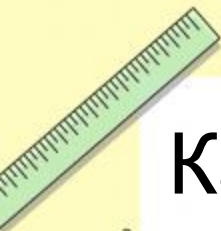
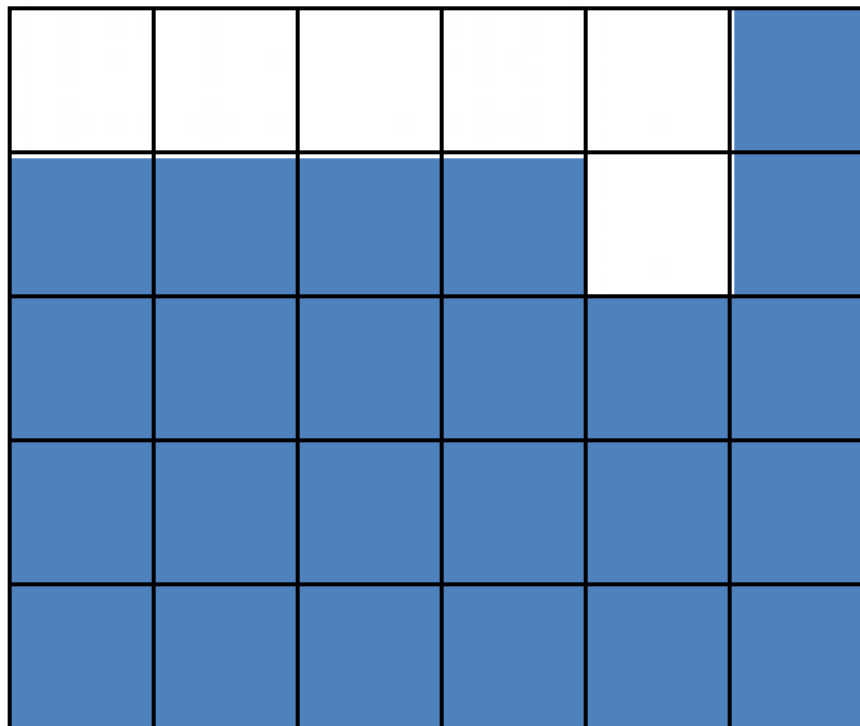


# Доли. Обыкновенные дроби

Какая часть фигуры закрашена?

$$\frac{18}{30} \quad \frac{16}{30}$$

$$\frac{5}{30} \quad \frac{6}{30}$$



$$\begin{array}{r} \frac{1}{2} 500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

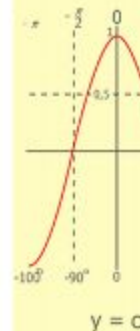
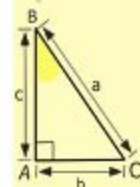
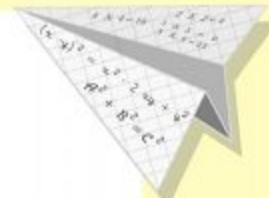
$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



- 2 x 2 = 4
- 3 x 3 = 9
- 4 x 4 = 16
- 5 x 5 = 25
- 6 x 6 = 36
- 7 x 7 = 49
- 8 x 8 = 64
- 9 x 9 = 81



# Сравнение дробей

Сравните дроби:

$$\frac{15}{12} > \frac{12}{12}$$

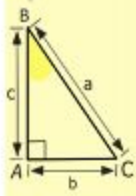
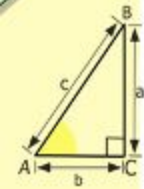
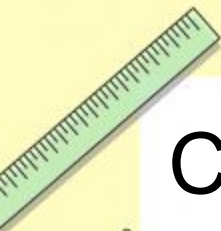
$$\frac{31}{60} > \frac{29}{60}$$

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

$$\frac{5}{8} < \frac{7}{8}$$

$$1 < \frac{4}{3}$$

$$\frac{12}{12} = \frac{21}{21}$$



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$

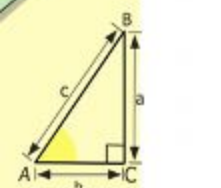
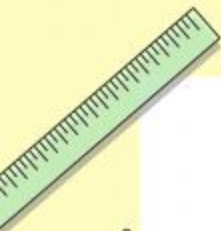
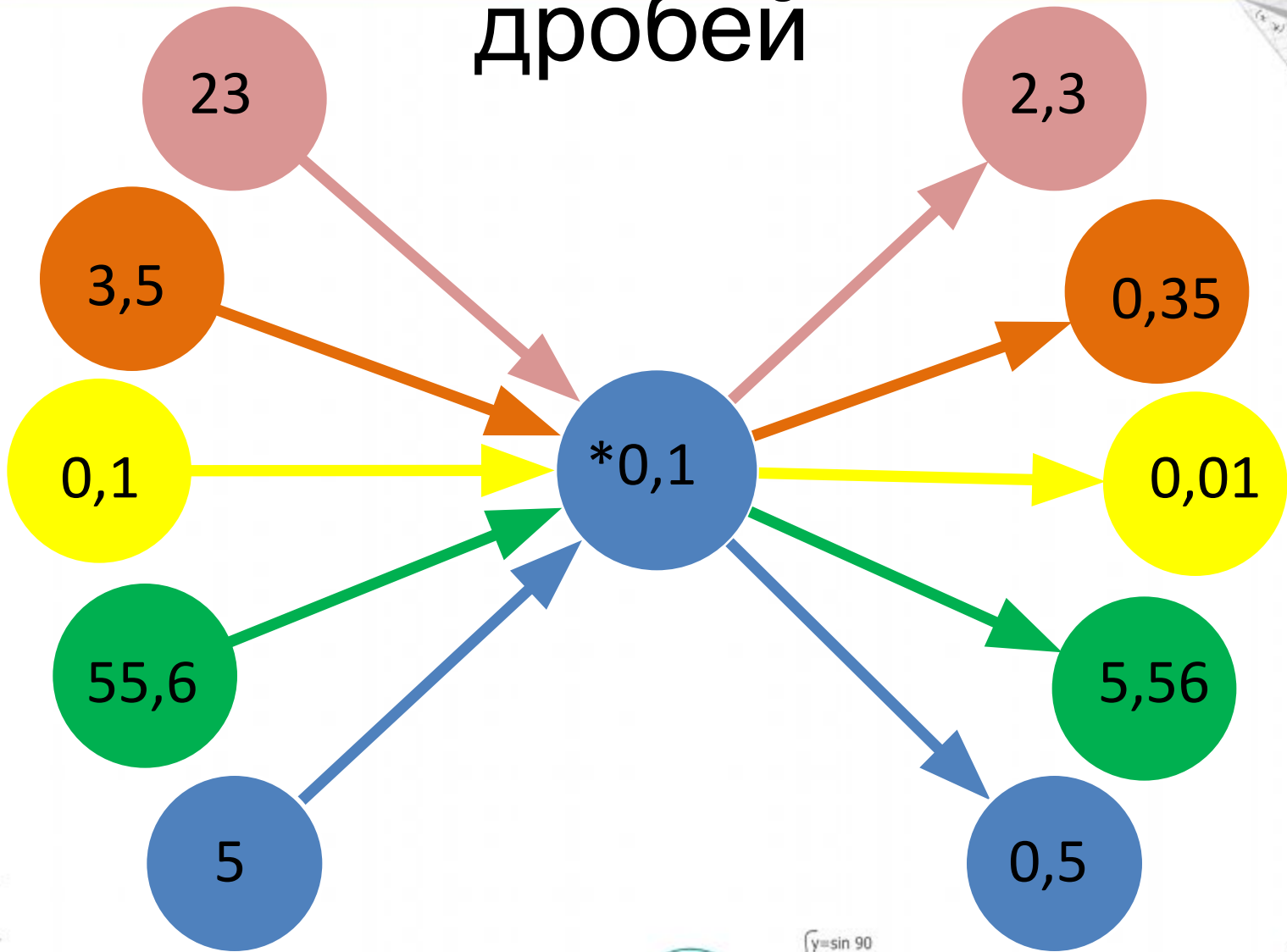
- 2 x 2 = 4
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# Умножение десятичных дробей



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 8400 \\ \hline 105000 \end{array}$$



$$\frac{a}{A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

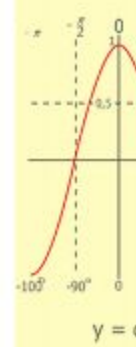
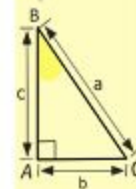
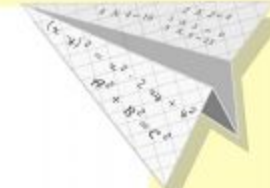
$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

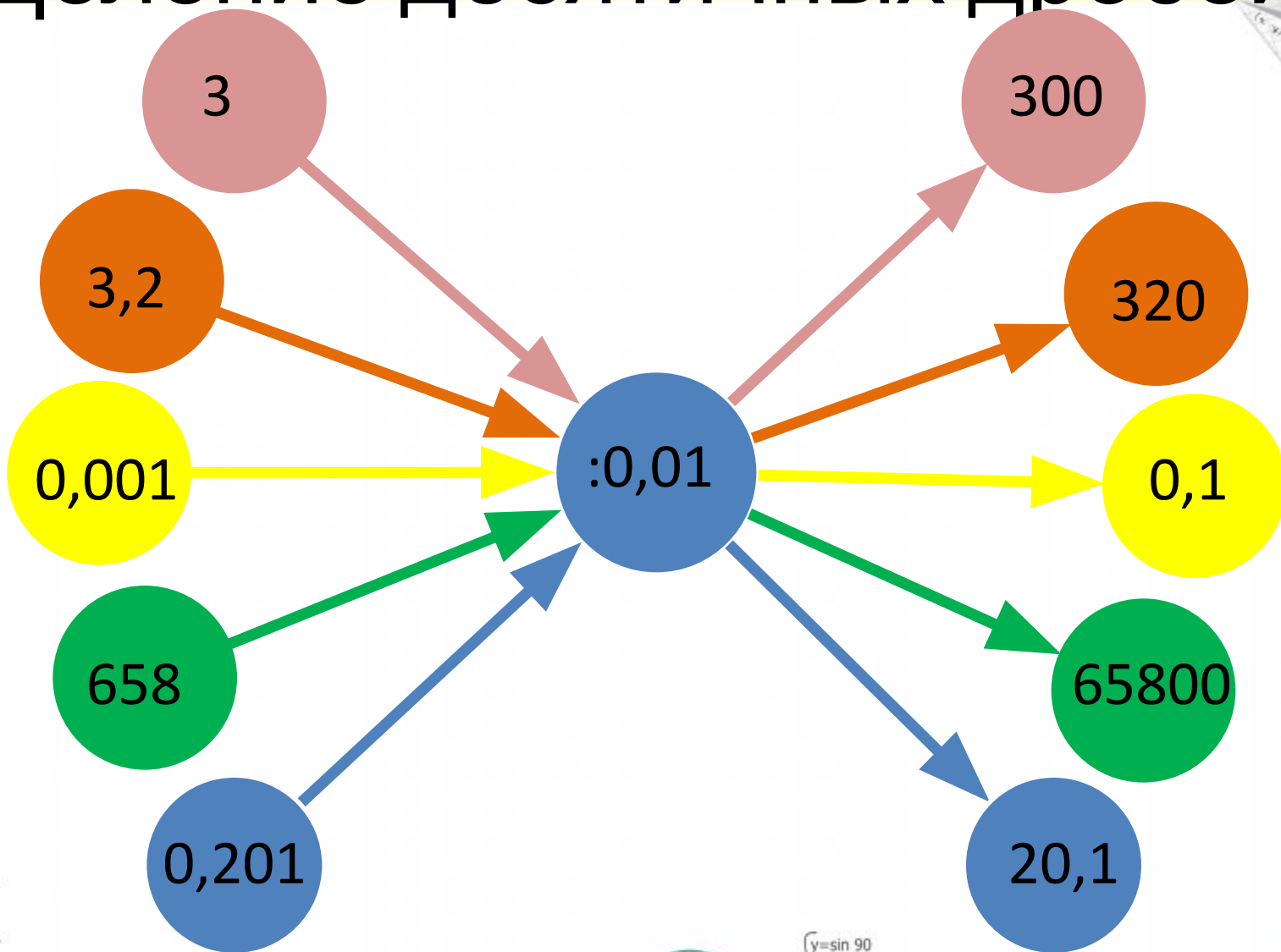
$$(x+y)(x-y) = x^2 - y^2$$



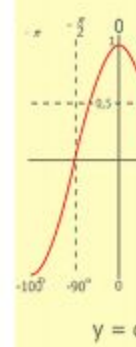
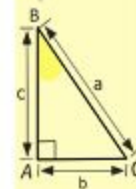
$$\begin{array}{l} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



# Деление десятичных дробей



$\frac{a}{A} = \frac{b}{\sin B} = \frac{c}{\sin C}$   
 $\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$



- $2 \times 2 = 4$
- $3 \times 3 = 9$
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$\sin 90^\circ = 1$



$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$   
 $\begin{cases} y = 1 \\ x = 25 + 45 \end{cases}$   
 $x = 70$

$(x+y)(x-y) = x^2 - y^2$



# Проценты

Найдите неизвестное

A 40 см B

100%

A 24 B

60%

A 10 B

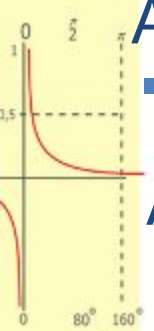
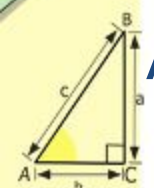
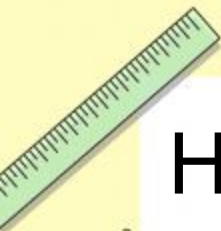
?%

A ?32 B

80%

A 28 B

?%



$$\begin{array}{r} \frac{1}{2} 500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$



$$\frac{a}{A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

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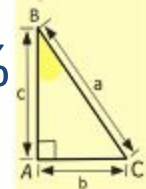
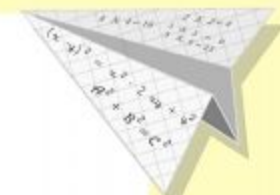
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