

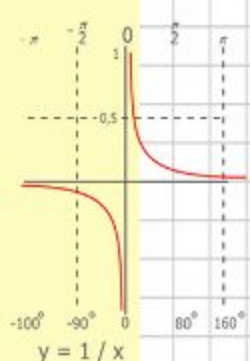
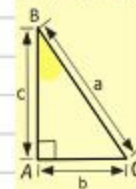
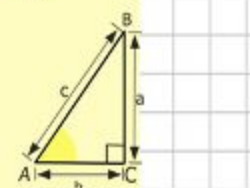
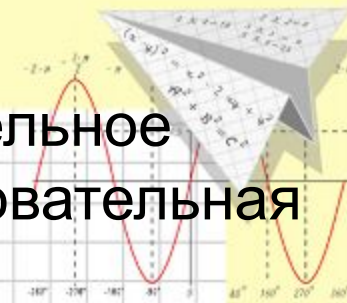
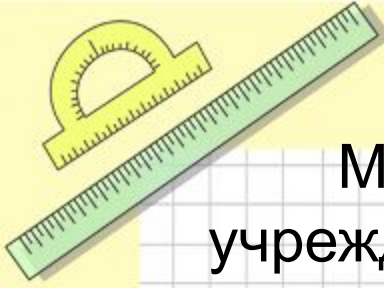
Математик

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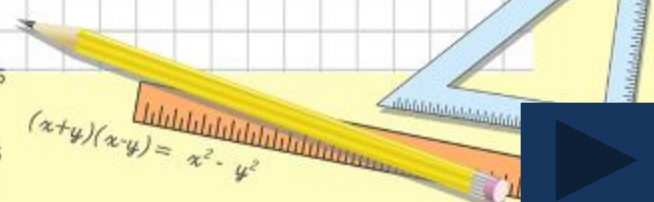
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$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$
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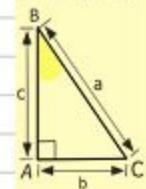
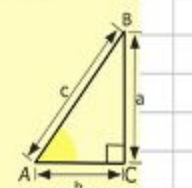
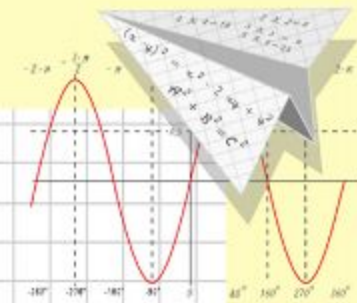
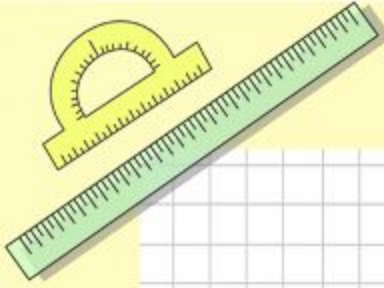
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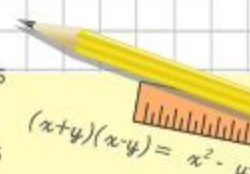
а Актуализация

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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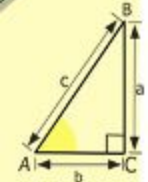
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Оглавление

- 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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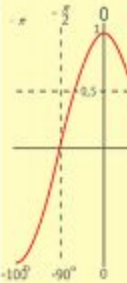
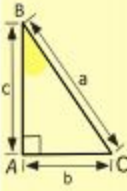
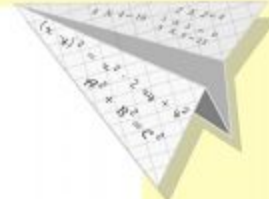
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$$y = \cos$$

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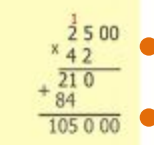
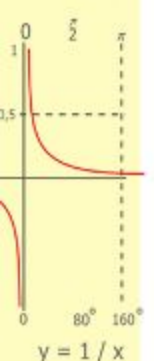
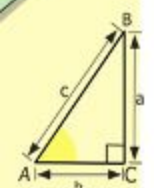
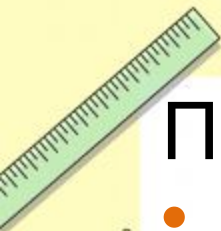
Чтение натуральных чисел

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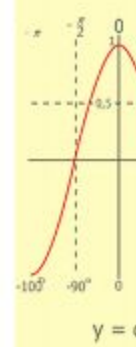
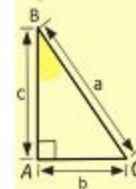
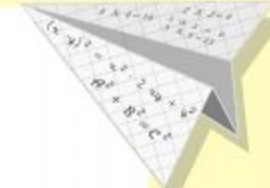
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$$(x+y)(x-y) = x^2 - y^2$$

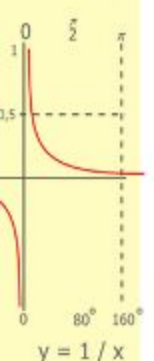
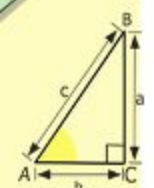
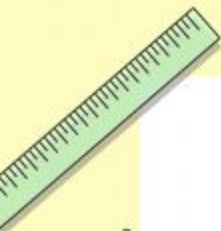
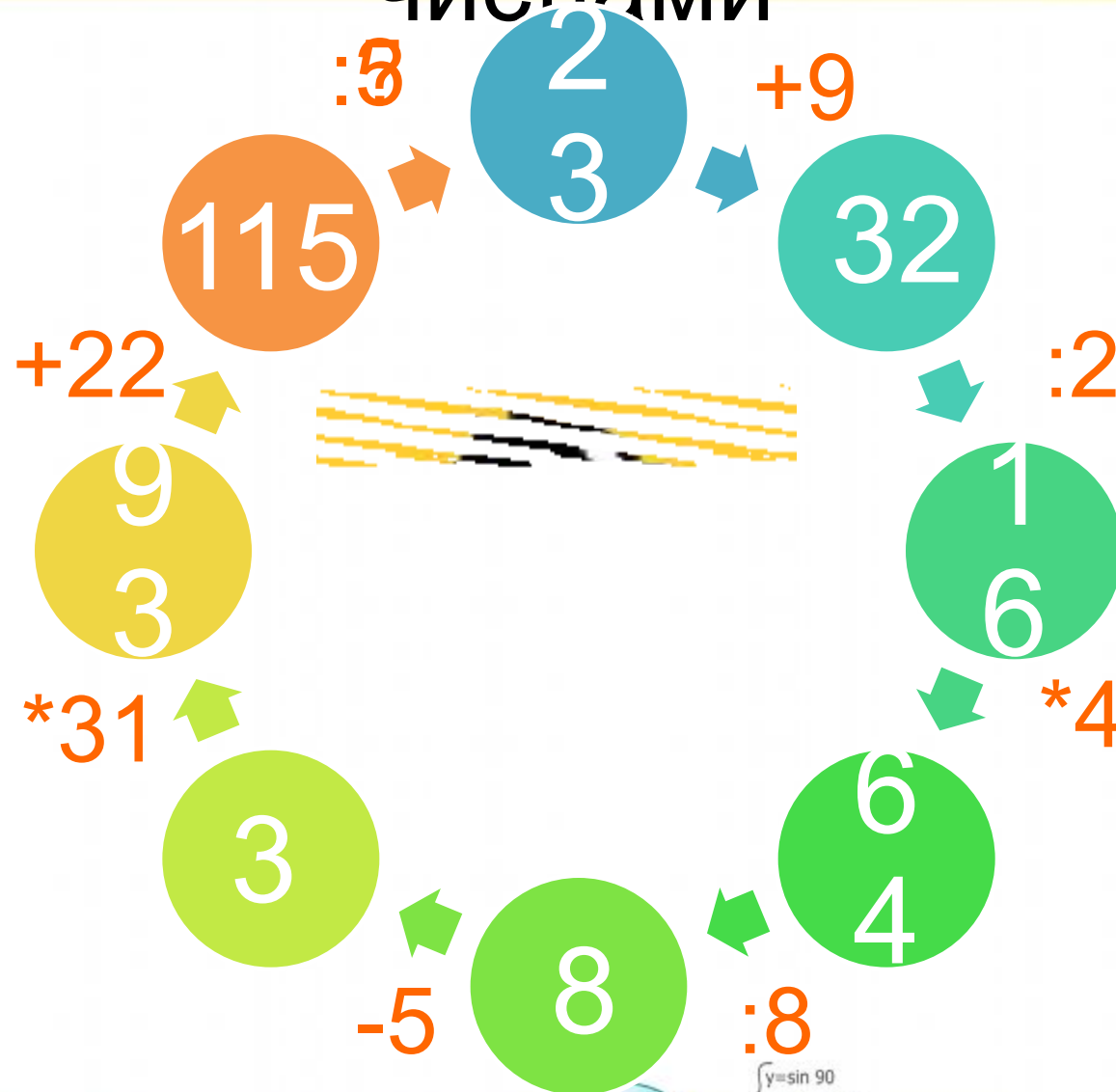


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Действия с натуральными

числами



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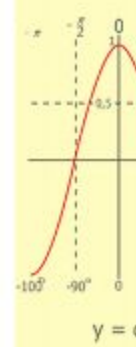
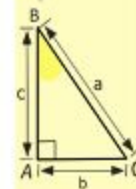
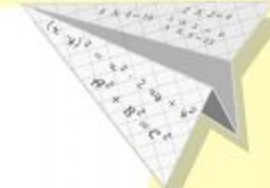
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Шкалы и координаты

Выразите в сантиметрах:

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

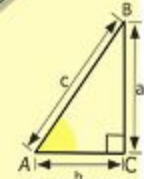
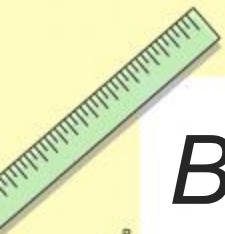
$$4 \text{ дм } 8 \text{ см} = 48 \text{ см}; \quad 460 \text{ мм} = 46 \text{ см};$$

Выразите в

метрах:

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

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



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



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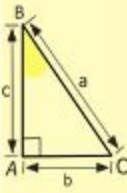
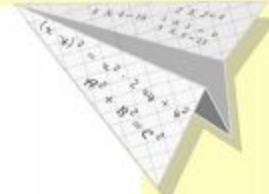
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Шкалы и координаты

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



Решение уравнений

~~$x = 542$~~

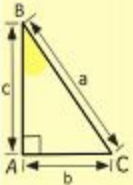
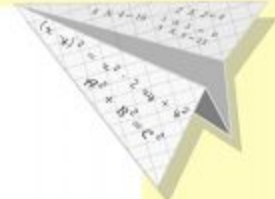
~~$x = 24 \div 23$~~

$x = 95$

~~$x = 1339$~~

~~$x = 939453110$~~

~~$x = 22$~~



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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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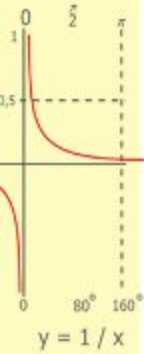
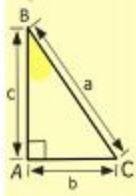
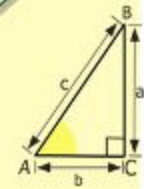
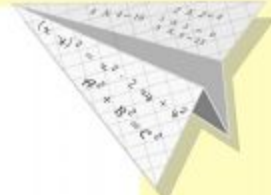
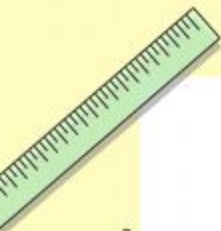
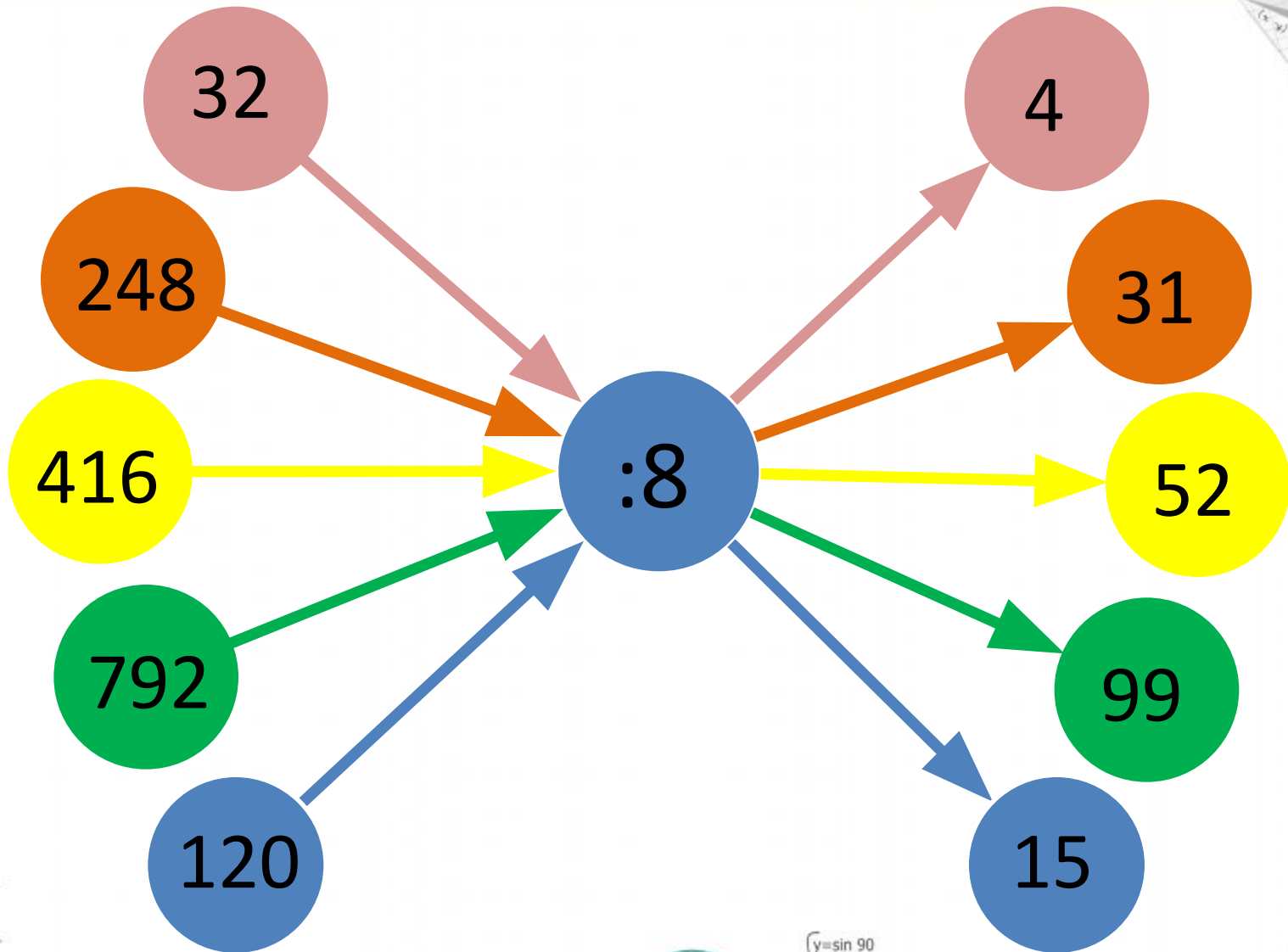
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Деление натуральных чисел



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$$x = 70$$



Порядок выполнения действий

$$5 * 3 + 8 = 23$$

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

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

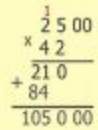
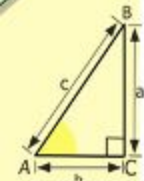
$$35 * 2 : 7 = 10$$

$$18 - 32 : 2 = 2$$

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

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

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



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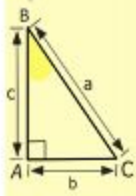
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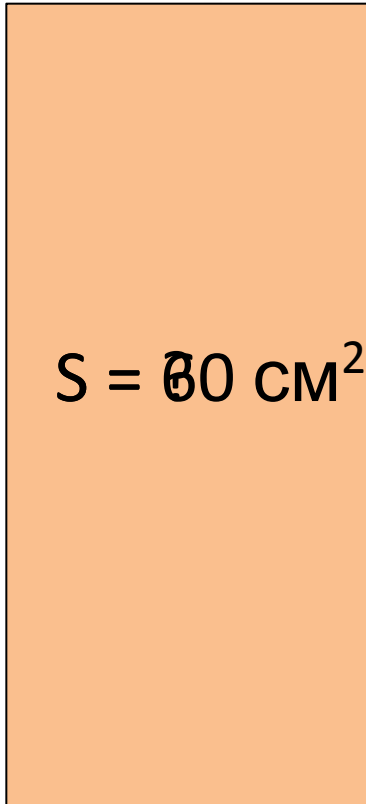
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Площадь прямоугольника

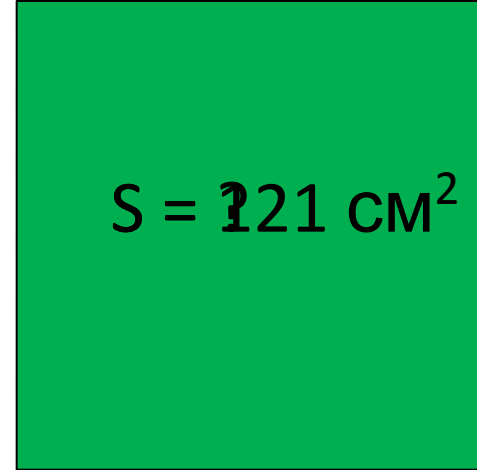
Вычислите площадь:

4 см

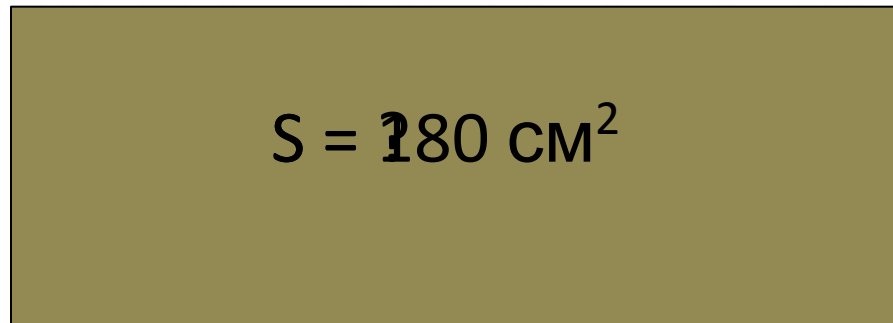


15 см

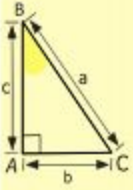
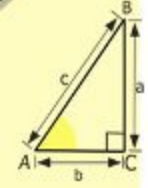
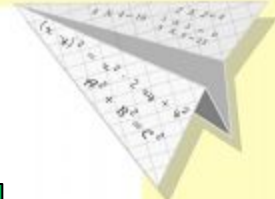
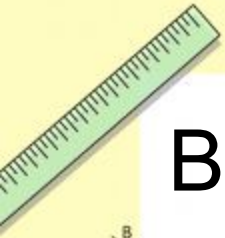
11 см



2 дм



9 см



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

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



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

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

$\sin 90^\circ = 1$



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

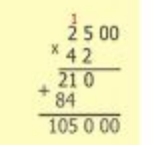
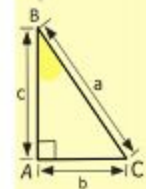
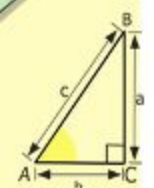
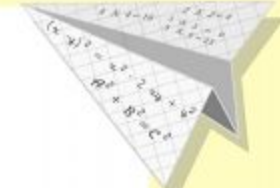
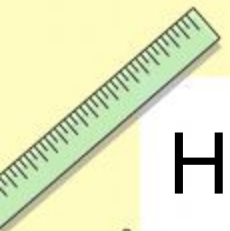
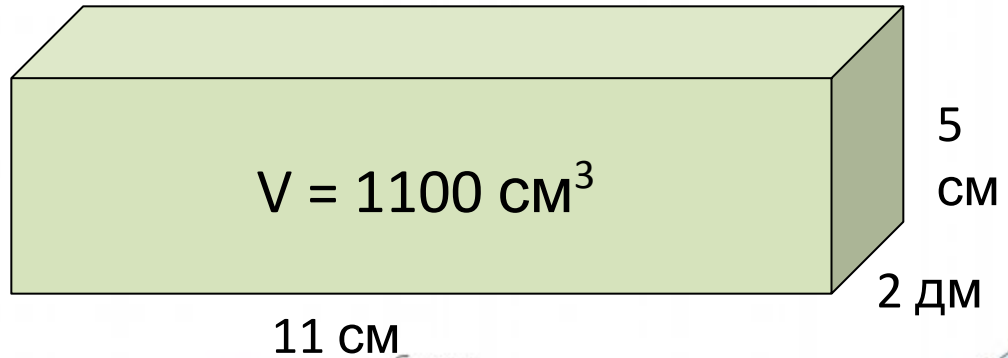
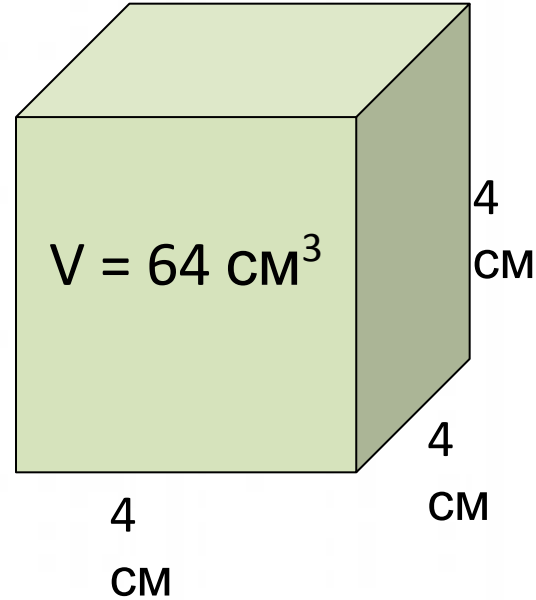
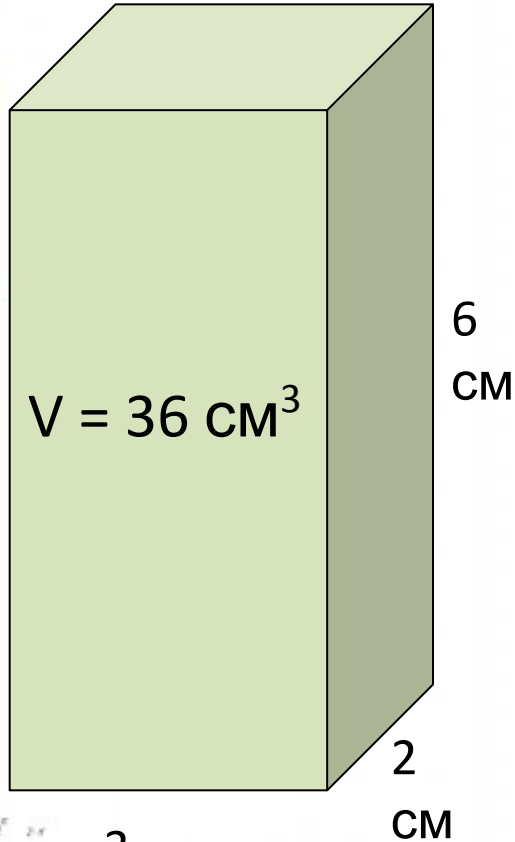
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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



Объем прямоугольного параллелепипеда

Найдите объем фигур:



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



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

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

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



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

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

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

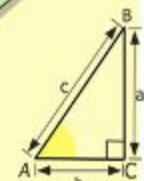
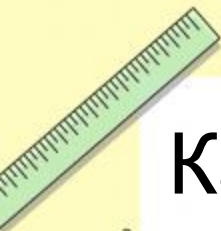
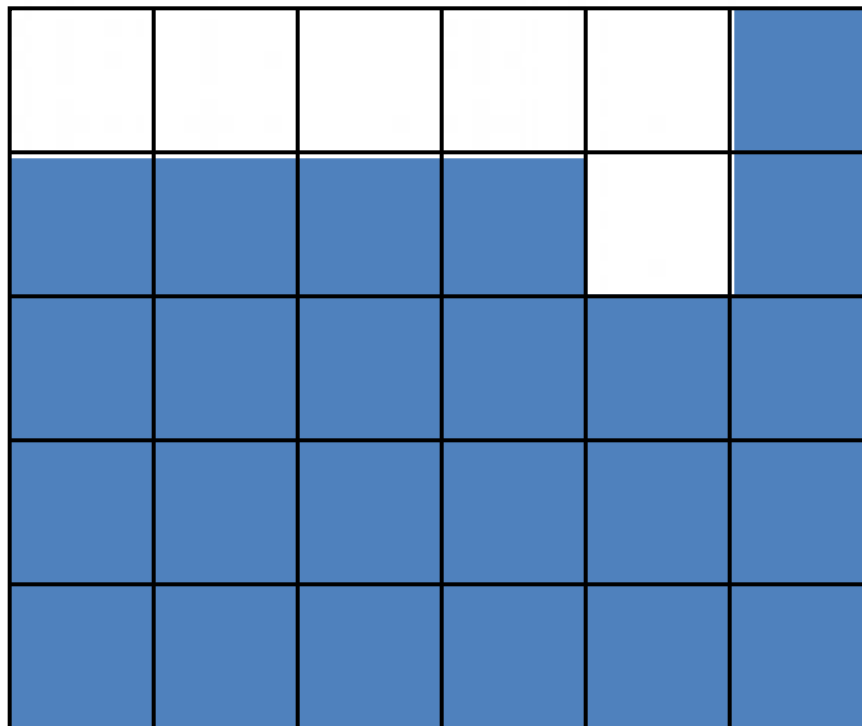


Доли. Обыкновенные дроби

Какая часть фигуры закрашена?

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

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



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



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

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

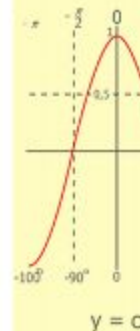
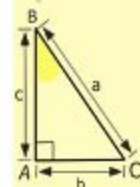
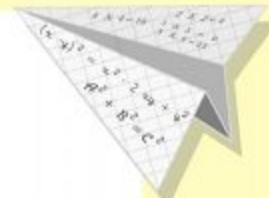
$$\sin 90^\circ = 1$$



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

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

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



- 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:

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

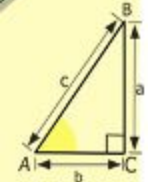
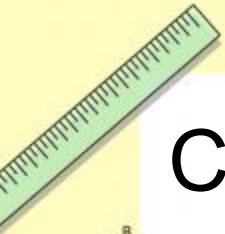
$$\frac{31}{60} > \frac{29}{60}$$

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

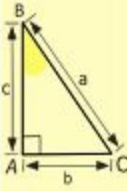
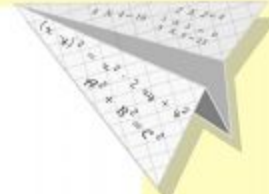
$$\frac{5}{8} < \frac{7}{8}$$

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

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



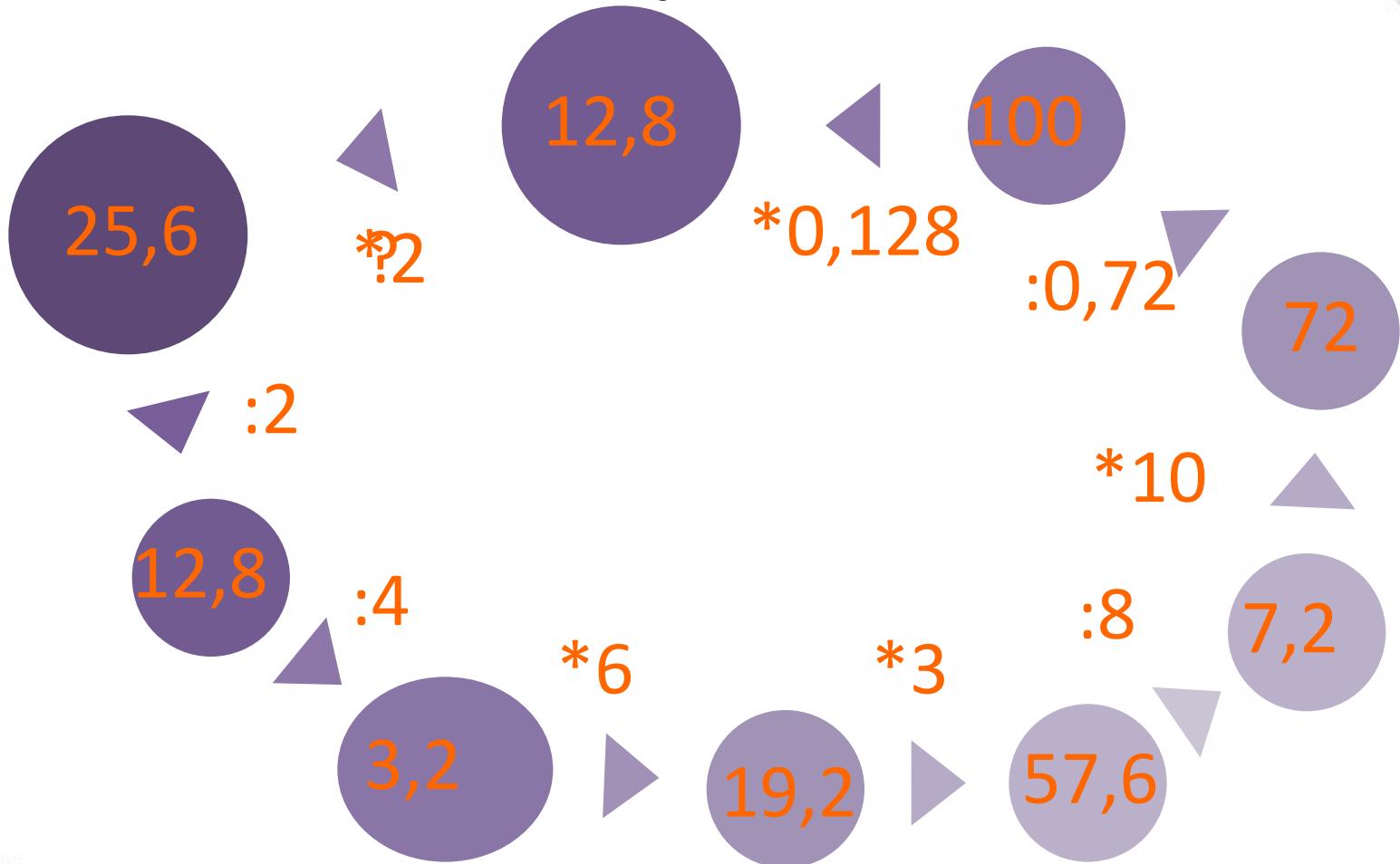
$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$



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



Умножение и деление десятичных дробей на натуральные числа



$\frac{1}{2} \ 5 \ 00$
 $\times 42$
 \hline
 $+ 210$
 \hline
 $+ 84$
 \hline
 $105 \ 0 \ 00$

$2 \times 2 = 4$
 $3 \times 3 = 9$
 $4 \times 4 = 16$
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$$\sin 90^\circ = 1$$



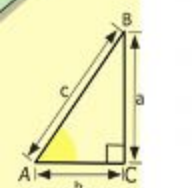
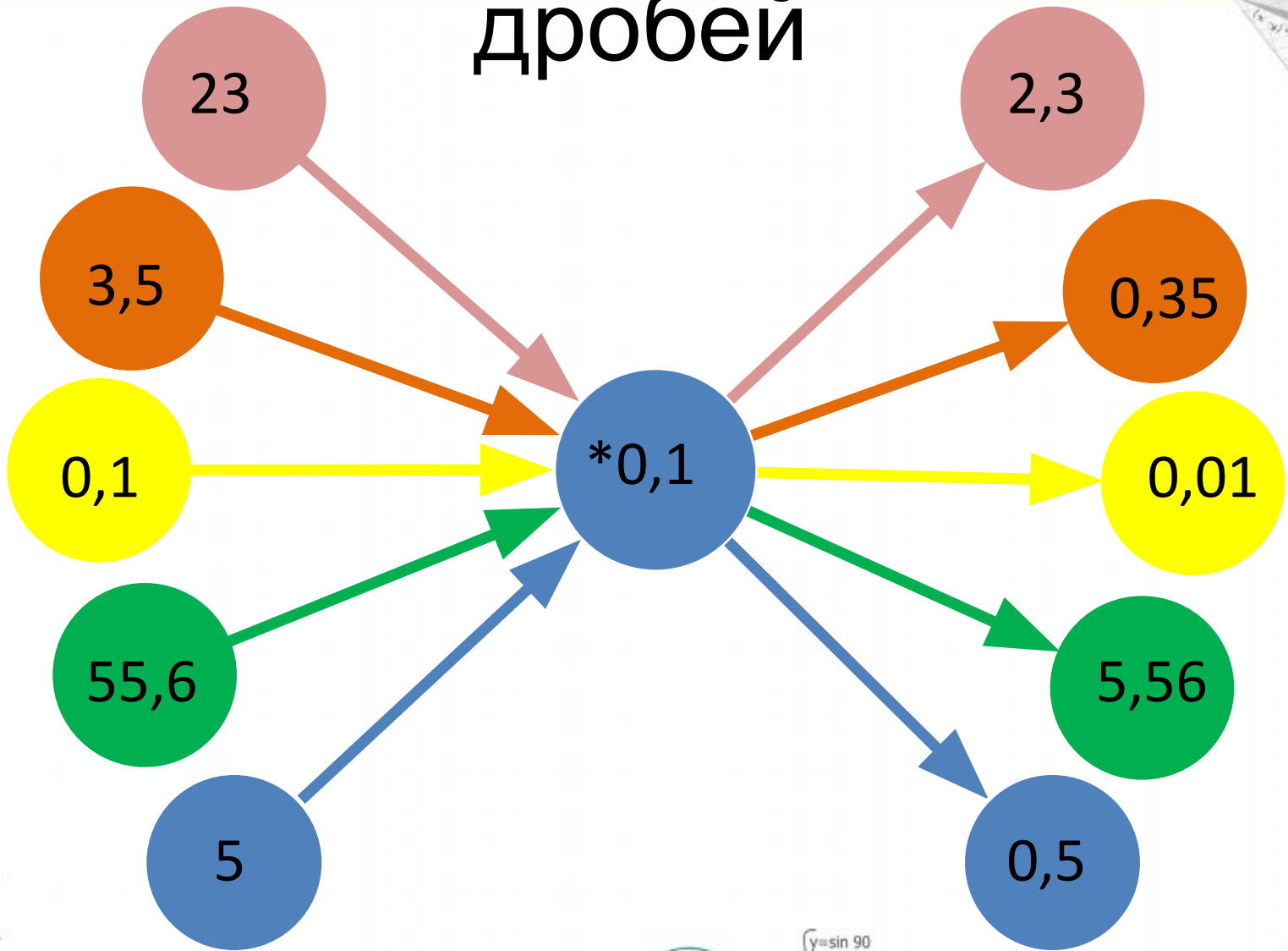
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

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



Умножение десятичных дробей



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



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

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

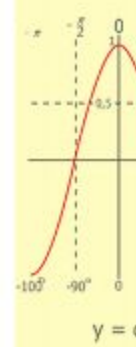
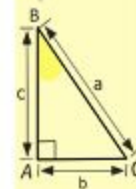
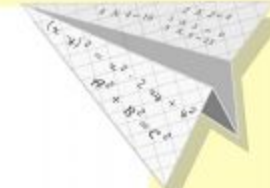
$$\sin 90^\circ = 1$$



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

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

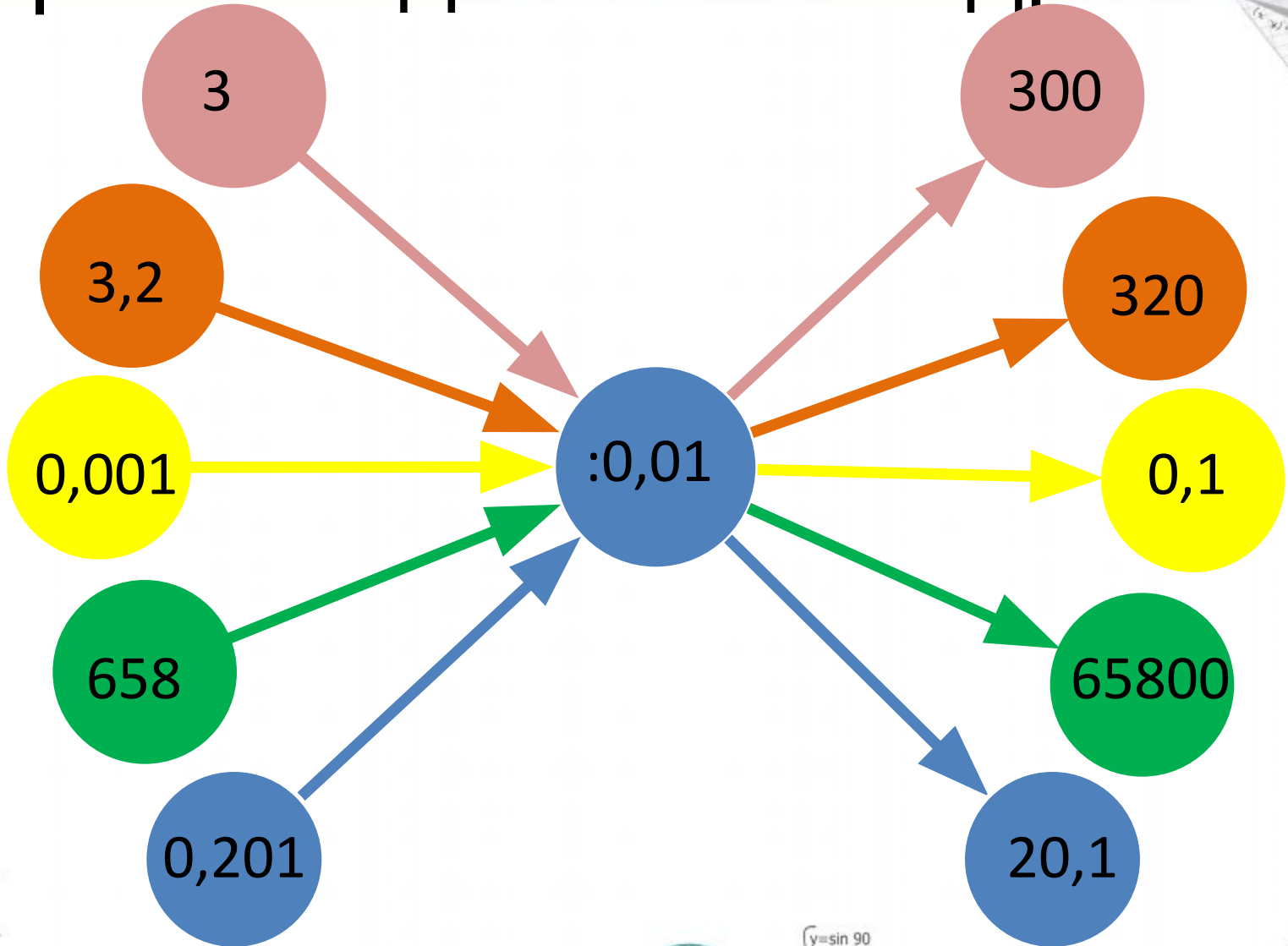
$$(x+y)(x-y) = x^2 - y^2$$



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Деление десятичных дробей



$y = 1/x$

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

$y = \cos$

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Проценты

Найдите неизвестное

A 40 см B

100%

A 24 B

60%

A 10 B

?% 25%

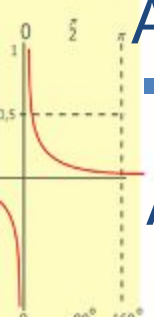
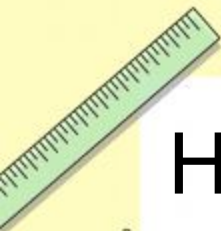
A ?32 B

80%

A 28 B

?% 60%

A CM B



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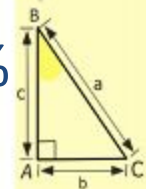
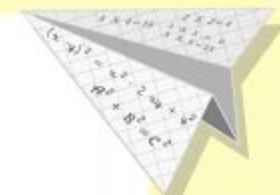
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