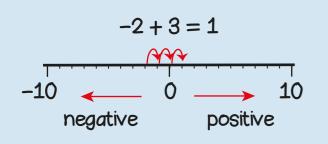
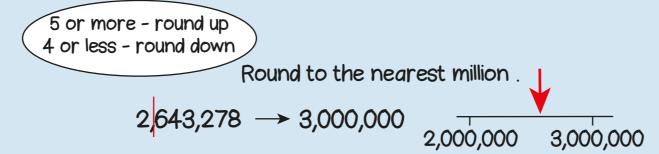


two million, five hundred and forty-three thousand, two hundred and forty-one

2 millions, 5 hundred thousands, 4 ten thousands, 3 thousands, 2 hundreds, 4 tens and 1 one

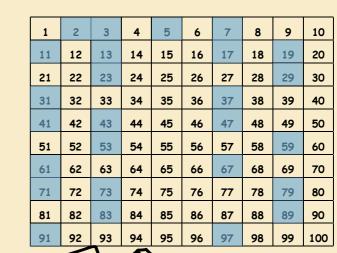




Multiplying and dividing by 10, 100 and 1000

M HTh TTh Th $100s$ $10s$ $1s$ $\frac{1}{10}$	$\frac{1}{100}$ $\frac{1}{1000}$
1 3 6	13.6 x 10
greater 1 3 6 <	move digits one place left
1 3 6 0 0	13.6 x 1000 move digits 3 places left
Ten times	106 : 10
	6 move digits one place right
0 1	3 6 13.6 ÷ 100 move digits 2 places right





A prime number has exactly 2 factors: 2, 3, 5, 7, 11, 13, 17, 19...

> 15 and 21 have the common factors 1 and 3

15 and 21 are common multiples of 3

prime 'common multiple factor multiplier

If I know... then I also know. because...



$$0.8 \times 7 = 8 \times 7 \div 10$$

in the x axis

$$4.2 \times 5 = 42 \div 2$$

$$56,000 \div 80 = 700$$

2427

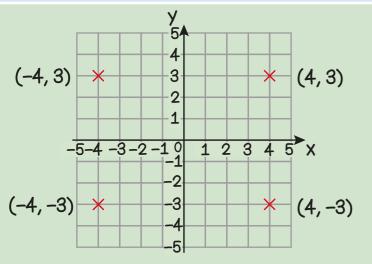
0139r3 24 3³3³3

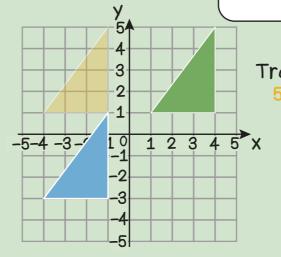
0139.125 24 3 3 3 9 0 0 0

1	24
2	24 48
4	96
5	96 120
8	192
10	240

 $3339 \div 24 = 139 \text{ r}3 = 139\frac{3}{24}$ = 139.13 (to 2dp)

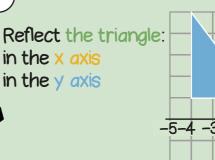
Year 6 Term 1

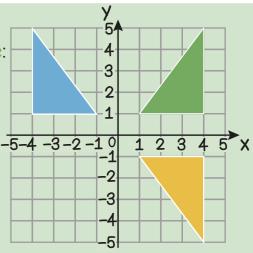


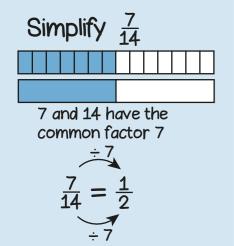


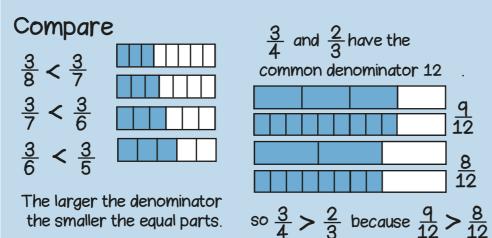
Translate the triangle 5 squares left and 4 squares down.

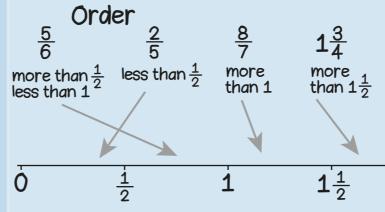
in the y axis object image reflect. translate

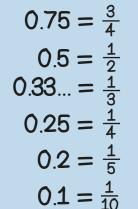


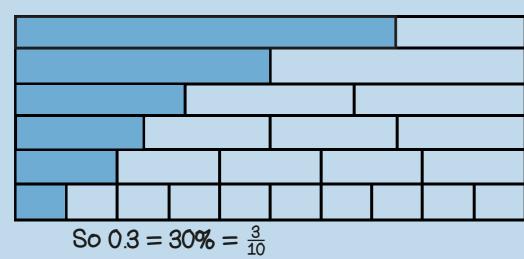


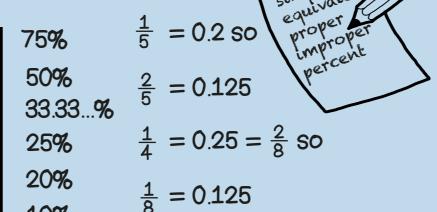






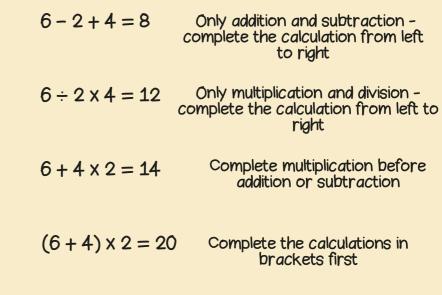






Order of Operations

 $6^2 + 4 \div 2 = 20$

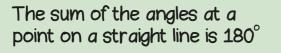


If I know... then I also know. because...

Calculate indices before other operations

Year 6 Term 2



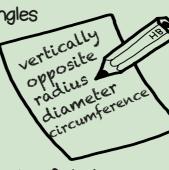




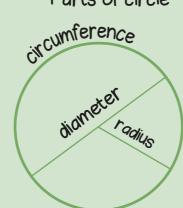
The sum of the angles at a point is 360°

Vertically opposite angles are equal

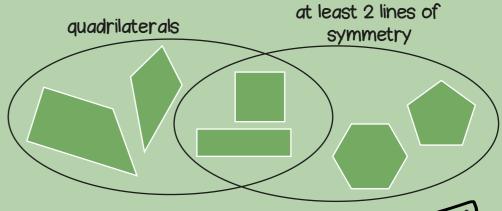
10%



Parts of circle

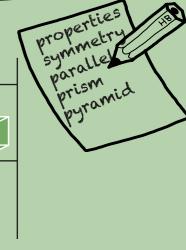


curved surface prism not a prism



no curved

surface



The sum of the angles in a triangle is 180°

The sum of the angles in a quadrilateral is 360

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

I can't describe the sum!.

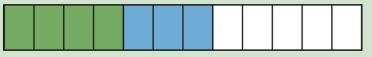


$$\frac{1}{3}=\frac{4}{12}$$

SO

 $\frac{1}{4} = \frac{3}{12}$

Find a common denominator.



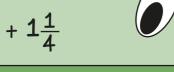
$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12} <$$

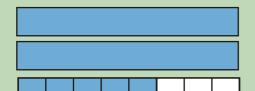
 $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$

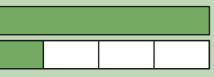
I can add fractions with the same denominator.

Adding mixed numbers. $2\frac{5}{8} + 1\frac{1}{4}$

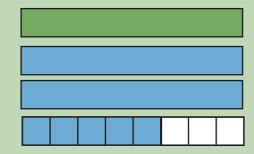
$$2\frac{5}{8} + 1\frac{1}{4}$$





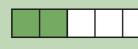


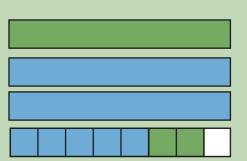
Add the whole numbers.



Add the fractions by finding a common denominator.

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







$$=3\frac{5}{8}+\frac{2}{8} = 3\frac{7}{8}$$



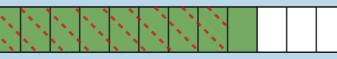
I can't describe the part that is left!



$$\frac{3}{4} = \frac{9}{12}$$

$$\frac{2}{3} = \frac{8}{12}$$

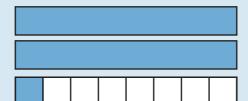
Find a common denominator.



$$\frac{9}{12} - \frac{8}{12} = \frac{1}{12}$$

I can subtract fractions with the same denominator

Subtracting mixed numbers.



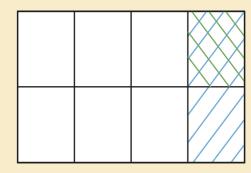
$$2\frac{1}{8} - 1\frac{1}{4}$$



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

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

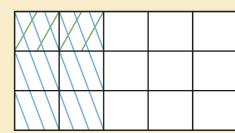
$$\frac{1}{4} \div 2 = \frac{1}{8}$$



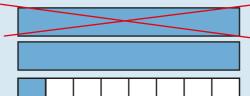
$$\frac{1}{3}$$
 of $\frac{2}{5} = \frac{2}{15}$

$$\frac{1}{3} \times \frac{2}{5} = \frac{2}{15}$$

$$\frac{2}{5} \div 3 = \frac{2}{15}$$



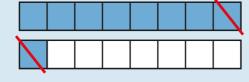
Subtract the whole numbers.



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

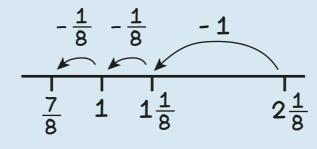
Subtract the fraction by finding a common denominator.

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



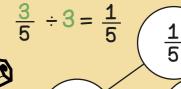
$$= 1\frac{1}{8} - \frac{2}{8}$$

Or on a number line.

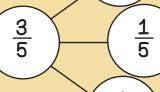


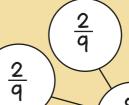
Year 6 Term 3



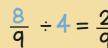




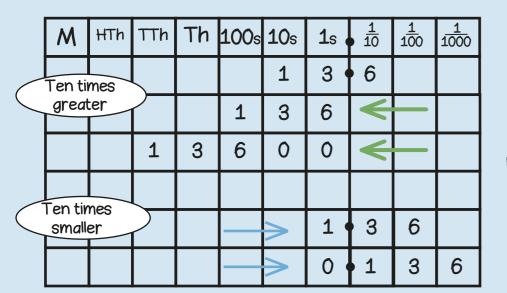












Converting units by 10, 100 and 1000

13.6 x 10 move digits 1 place left 13.6 x 1000 move digits 3 places left

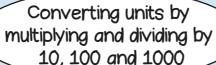
 $136 \div 10$ move digits 1 place right 13.6 ÷ 100 move digits 2 places right

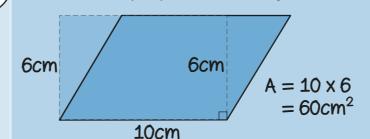
1l = 1000 ml $13600 \div 1000 = 13.6$ so 13,600ml = 13.6litres

> 1kg = 1000 a $1360 \div 1000 = 1.36$ so 1360q = 1.36kq

240

100

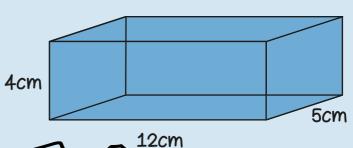




= base x perpendicular height

Area of a parallelogram

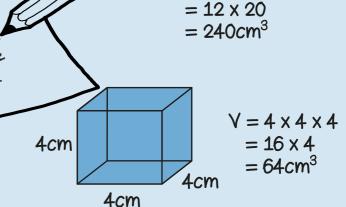
Volume of a cuboid = length x width x height



converticular Area of a triangle $=\frac{1}{2}x$ base x perpendicular height volume $A = \frac{1}{2} \times 10 \times 6$ $=30cm^2$

 $A = 10 \times 6 \div 2$

 $= 30 cm^{2}$



1cm = 10 mm $13.6 \times 10 = 136$

1m = 100 cm

 $13.6 \times 100 = 1360$

so 13.6m = 1360cm

so 13.6cm = 136mm

24

10

25%

1km = 1000 m $13.6 \times 1000 = 13600$ so 13.6km = 13,600m

When converting from a larger unit to a smaller unit, multiply because there will be more of them.

180

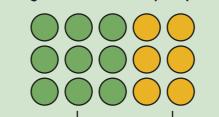
Find 50% of 240

2%

Year 6 Term 4 3 green for every 2 yellow

6cm

10cm



6cm

	green	yellow	total
	3	2	5
	6	4	10
	9	6	15

a + a = 2aIf a = 3 $2a = 2 \times 3 = 6$ $a \times a = a^2$ $a^2 = 3 \times 3 = 9$

Buying a mug costs £8 for the mug plus £4 per colour. How much would it cost to get a mug with 3 colours? £8 + 4 \times 3 = £20

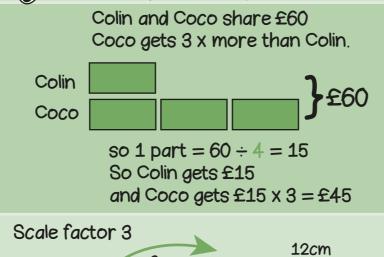
 $V = 12 \times 5 \times 4$

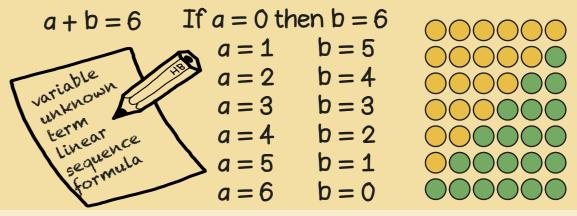
Find 10% of 240 12 5% 20% 10% 10% 240 100% 2.4 120 50% 1%

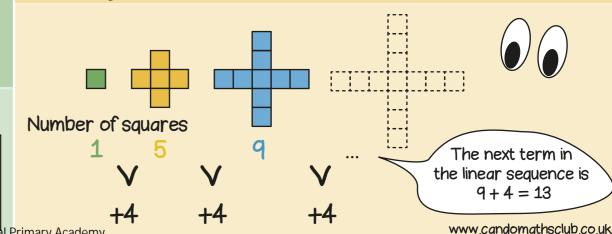
÷ 10

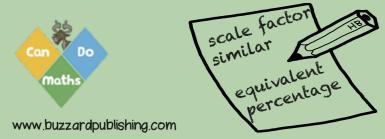
50

Find 25% of 240









x3 4cm 6cm 2cm

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