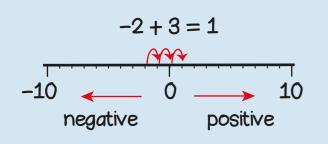
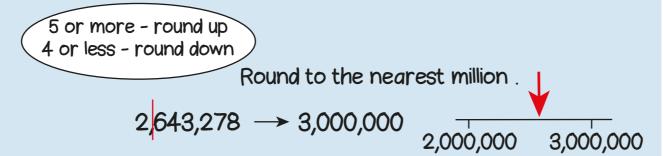


two million, five hundred and forty-three thousand, two hundred and forty-one

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

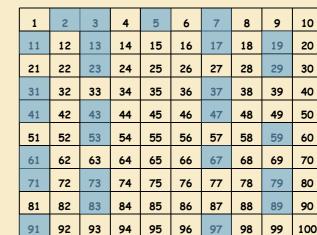




Multiplying and dividing by 10, 100 and 1000

M	HTh	TTh	Th	100 s	10 s	1 s	10	<u>1</u> 100	1000	
Te	en time	es			1	3	6			13.6 x 10
greater		<u></u>		1	3	6	Ψ		move	digits one place left
		1	3	6	0	0	ψ		move	13.6 x 1000 digits 3 places left
T	en tim	PS								106 : 10
					\	1 •	3	6	move	13.6 ÷ 10 digits one pl <i>ac</i> e right
						0	1	3	6 mov	13.6 ÷ 100 e digits 2 places right
	Te	Ten time greater	Ten times greater	Ten times greater 1 3 Ten times	Ten times greater 1 3 6	Ten times greater 1 3 1 Ten times	Ten times	Ten times	Ten times	Ten times 1 3 6 move 1 3 6 move 1 3 6 0 0 move Ten times 1 3 6 move





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...



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

 $4.2 \times 5 = 42 \div 2$

 $56,000 \div 80 = 700$

2427

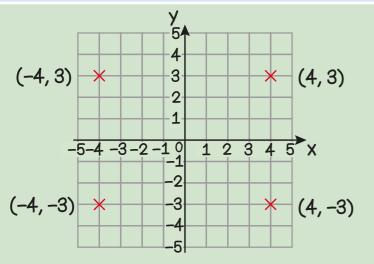
0139r3 24 3³3³3

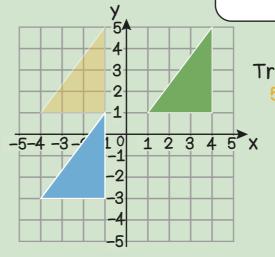
0139.125 24 3 3 3 9 0 0 0

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

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

Year 6 Term 1



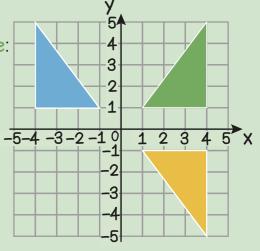


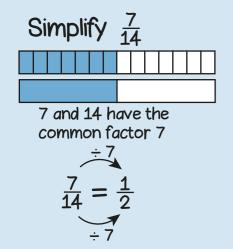
Translate the triangle 5 squares left and 4 squares down.

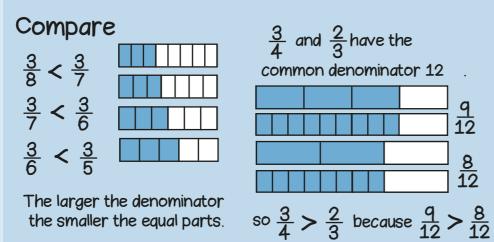
in the y axis object image reflect translate

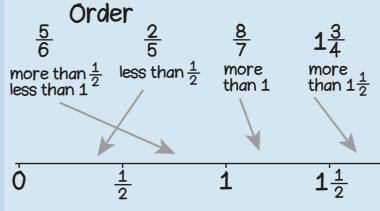
Reflect the triangle:

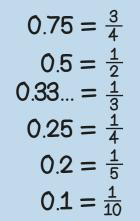
in the x axis

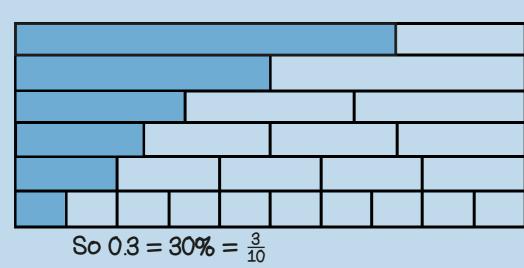


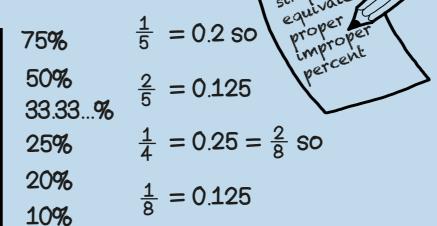






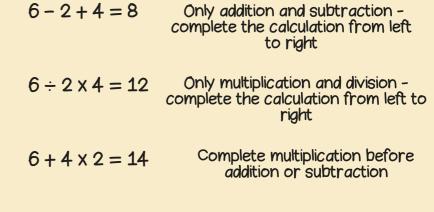


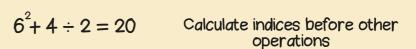




Order of Operations

 $(6+4) \times 2 = 20$





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

at least 2 lines of

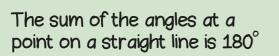
symmetry

Complete the calculations in brackets first

Year 6 Term 2

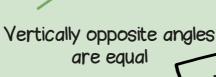
quadrilaterals







The sum of the angles at a point is 360°



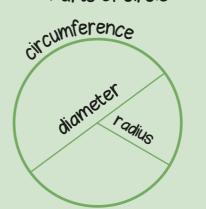


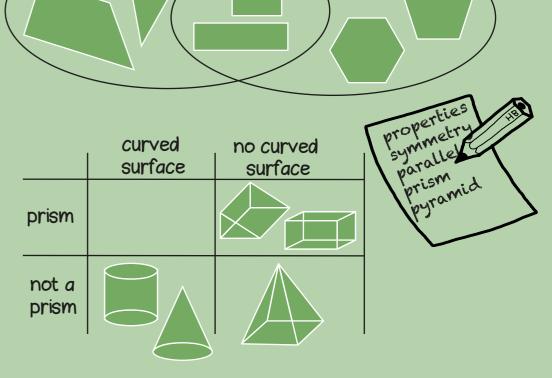
Parts of circle



The sum of the angles in a triangle is 180°

The sum of the angles in a quadrilateral is 360





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

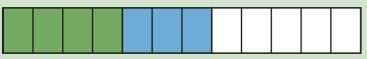
I can't describe the sum!.



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

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

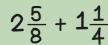
Find a common denominator.



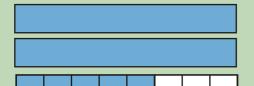
$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

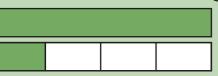
SO $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$ I can add fractions with the same denominator.

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

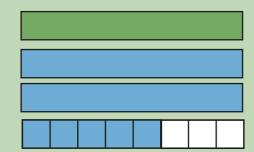






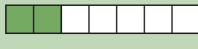


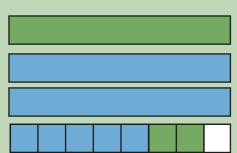
Add the whole numbers.



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!

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

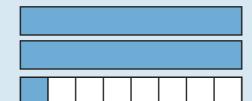
$$\frac{2}{3} = \frac{8}{12}$$

Find a common denominator.

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

I can subtract fractions with the same denominator

Subtracting mixed numbers.

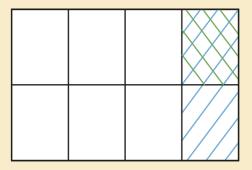


$$2\frac{1}{8} - 1\frac{1}{4}$$

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

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

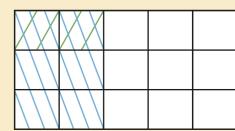
$$\frac{1}{4} \div 2 = \frac{1}{8}$$



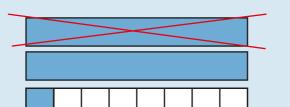
$$\frac{1}{3}$$
 of $\frac{2}{5} = \frac{2}{15}$

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

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



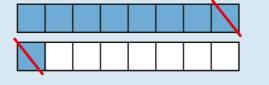
Subtract the whole numbers.



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

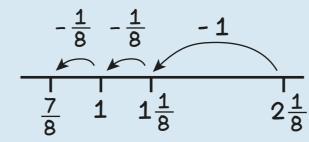
Subtract the fraction by finding a common denominator.

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



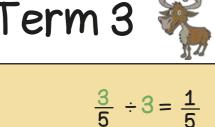
$$= 1\frac{1}{8} - \frac{2}{8}$$

Or on a number line.



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Year 6 Term 3





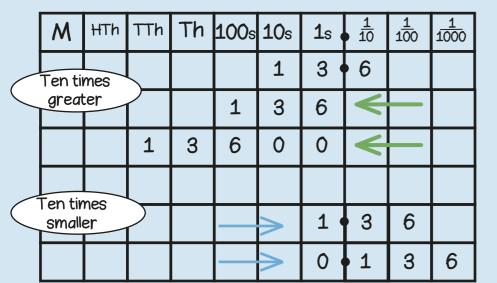
<u>2</u>

<u>2</u>









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 $13.6 \div 100$ move digits 2 places right

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

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

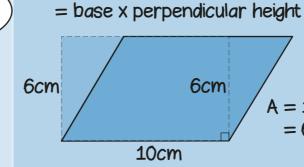
240

100

20%

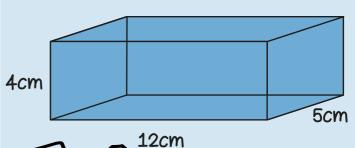
2%

multiplying and dividing by

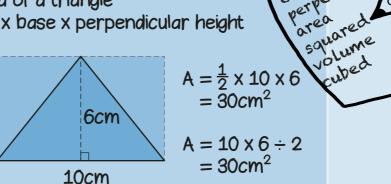


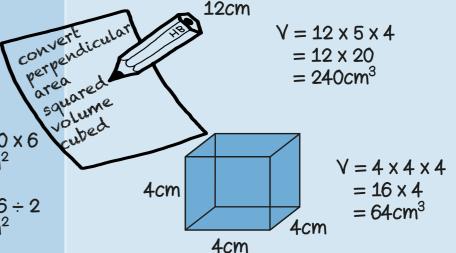
Area of a parallelogram

Volume of a cuboid = length x width x height



Area of a triangle $=\frac{1}{2}x$ base x perpendicular height





so 13.6m = 1360cm1cm = 10 mm

1m = 100 cm

 $13.6 \times 100 = 1360$

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

24

10

12

25%

10%

120

50%

5%

When converting from a larger unit

÷ 10

50

240

100%

Find 10% of 240

Find 25% of 240

to a smaller unit, multiply because there will be more of them.

180

Find 50% of 240

10%

2.4

1%

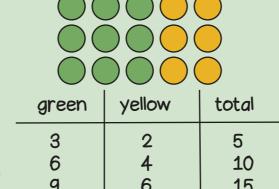
1km = 1000 m

 $13.6 \times 1000 = 13600$

so 13.6km = 13,600m

3 green for every 2 yellow

6cm



6 15

Colin and Coco share £60 Coco gets 3 x more than Colin.

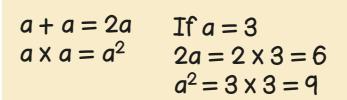




Year 6 Term 4

 $A = 10 \times 6$

 $= 60 cm^2$



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

