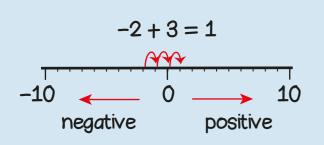
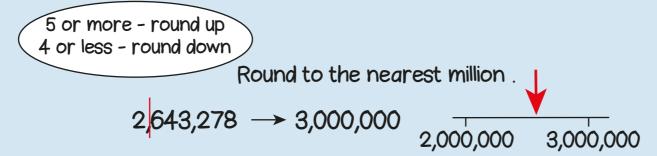


two million, five hundred and forty-three thousand, two hundred and forty-one

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

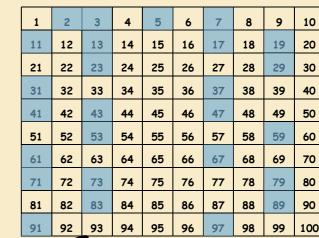




Multiplying and dividing by 10, 100 and 1000

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
Q	greater			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 place right
						0	1	3	6 mov	13.6 ÷ 100 e digits 2 places right
	To	Ten time greater	Ten times greater	Ten times greater 1 3 Ten times	Ten times greater 1 1 3 6	Ten times 1 3 1 3 1 3 1 3 1 1 3 1 1 3 1 1 3 1	Ten times	Ten times greater 1 3 6 1 3 6 Ten times smaller 1 3 6	Ten times greater 1 3 6 1 3 6 1 3 6 Ten times greater 1 3 6 1 3 6 1 3 6	Ten times 1 3 6 move 1 3 6 0 0 move Ten times 1 3 6 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 ist common common multiple factor multiplier divisor

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



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

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

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

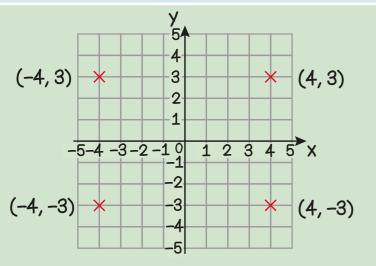
	01391	3
24	33339	

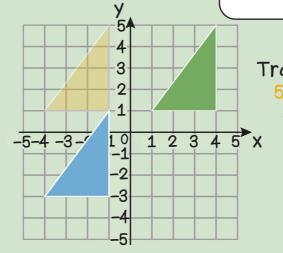
0 1 3 9 .1 2 5 24 3 3 9 3 9 .0 0 0

1	24	
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

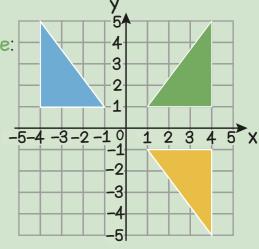


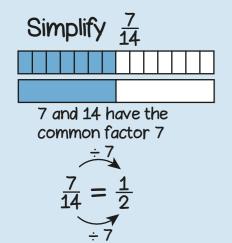


Translate the triangle
5 squares left and
4 squares down.

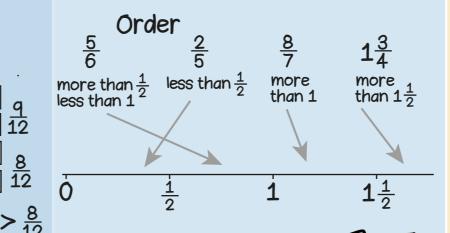


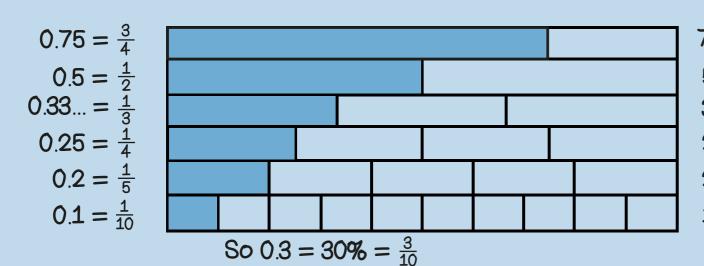
Reflect the triangle: in the x axis in the y axis

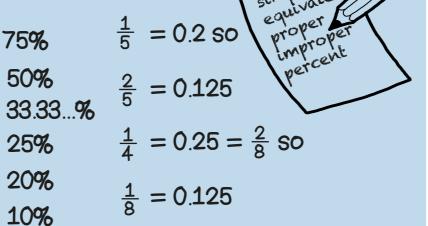




Compare $\frac{3}{8} < \frac{3}{7}$ and $\frac{2}{3}$ have the common denominator 12. $\frac{3}{7} < \frac{3}{6}$ $\frac{3}{6} < \frac{3}{5}$ The larger the denominator the smaller the equal parts. so $\frac{3}{4} > \frac{2}{3}$ because $\frac{q}{12} > \frac{8}{12}$

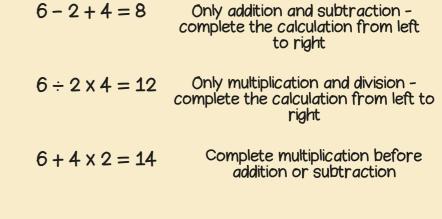


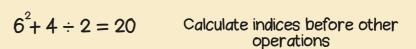




Order of Operations

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





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

at least 2 lines of

symmetry

Complete the calculations in brackets first

Year 6 Term 2

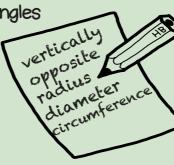
quadrilaterals



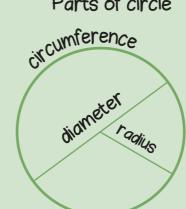
The sum of the angles at a point on a straight line is 180°

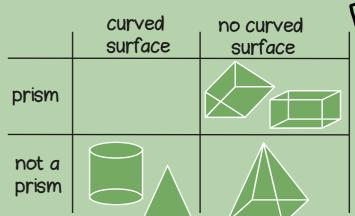
The sum of the angles at a point is 360°

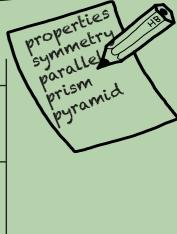
Vertically opposite angles are equal



Parts of circle



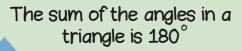




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The sum of the angles in a quadrilateral is 360°

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

I can't describe the sum!.

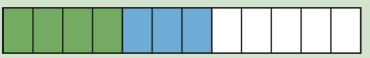


$$\frac{1}{3}=\frac{4}{12}$$

SO

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

Find a common denominator.



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

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

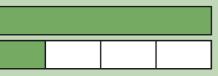
I can add fractions with the same denominator.

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

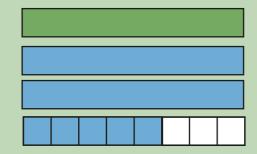
$$2\frac{5}{8} + 1\frac{1}{4}$$





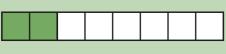


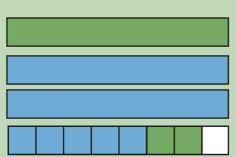
Add the whole numbers.



Add the fractions by finding a common denominator.

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







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



I can't describe the part that is left!



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

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

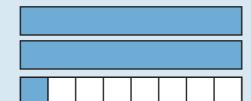
Find a common denominator.



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

I can subtract fractions with the same denominator

Subtracting mixed numbers.



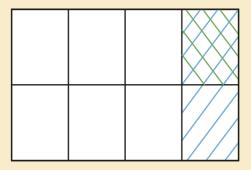
$$2\frac{1}{8}$$
 - $1\frac{1}{4}$



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

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

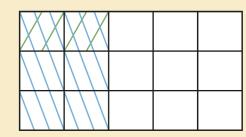
$$\frac{1}{4} \div 2 = \frac{1}{8}$$



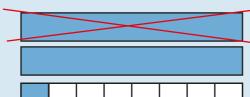
$$\frac{1}{3}$$
 of $\frac{2}{5} = \frac{2}{15}$

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

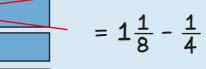
$$\frac{2}{5} \div 3 = \frac{2}{15}$$



Subtract the whole numbers.

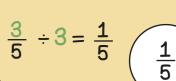


$$= 1\frac{1}{8} - \frac{1}{4}$$

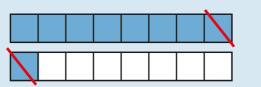


Year 6 Term 3



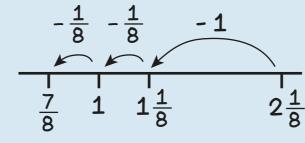


Subtract the fraction by finding a common denominator.

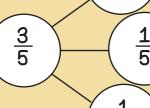


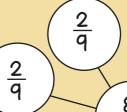
$$= 1\frac{1}{8} - \frac{2}{8}$$

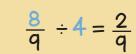
Or on a number line.



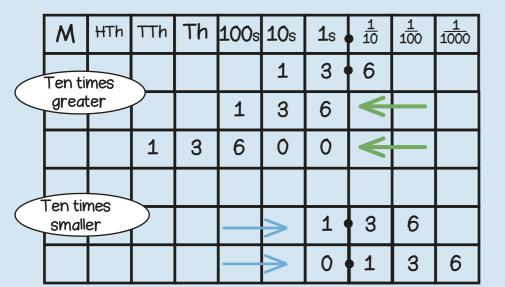












Converting units by 10, 100 and 1000

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

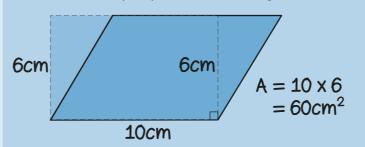
1l = 1000 ml $13600 \div 1000 = 13.6$ so 13,600ml = 13.6litres

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

240

100

multiplying and dividing by



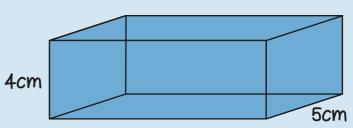
6cm

10cm

Area of a parallelogram

= base x perpendicular height

Volume of a cuboid = length x width x height



12cm

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

 $= 240 cm^3$ $V = 4 \times 4 \times 4$ $= 16 \times 4$ 4cm $= 64 cm^3$ 4cm 4cm

 $V = 12 \times 5 \times 4$

 $= 12 \times 20$

1m = 100 cm

 $13.6 \times 100 = 1360$

so 13.6m = 1360cm

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

24

10

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.

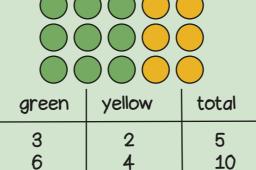
180

Find 50% of 240

2%

Year 6 Term 4 3 green for every 2 yellow

6cm

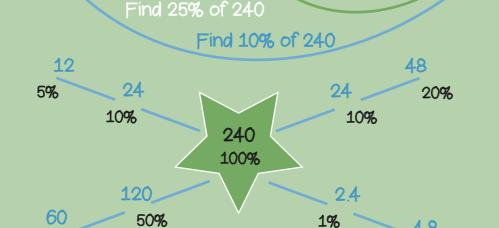


a + a = 2aIf a = 3 $2a = 2 \times 3 = 6$ $a \times a = a^2$

 $A = 10 \times 6 \div 2$

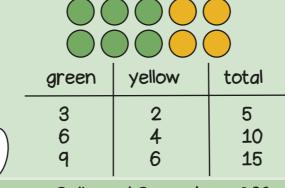
 $= 30 cm^{2}$

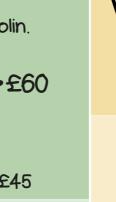
Buying a mug costs £8 for the mug plus £4 per colour. How much would it cost to get a mug with 3 colours? £8 + 4 \times 3 = £20



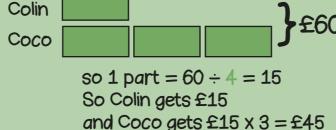
÷ 10

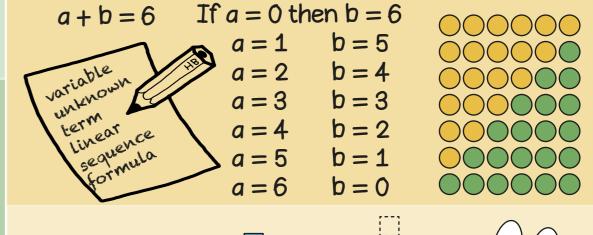
50





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





 $a^2 = 3 \times 3 = 9$

