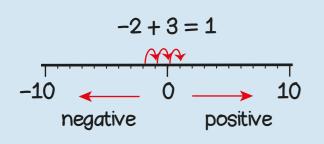
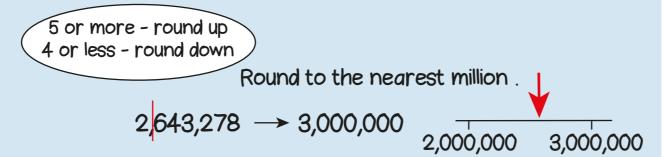


two million, five hundred and forty-three thousand, two hundred and forty-one

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

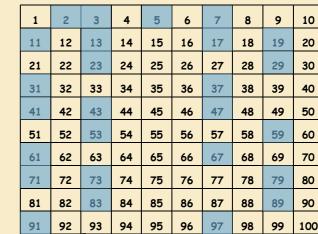




#### Multiplying and dividing by 10, 100 and 1000

M	HTh	TTh	Th	<b>100</b> s	<b>10</b> s	<b>1</b> s (	10	<u>1</u> 100	1000	
Te	en time	es \			1	3	6			13.6 x 10
Q	greate)			1	3	6	$\Psi$		move	digits one place left
		1	3	6	0	0	<b>\</b>		move	13.6 x 1000 digits 3 places left
T	en tim	PS								106 - 10
	smalle				<b>1</b>	1 •	3	6	move	13.6 ÷ 10 digits one place right
						0	1	3	6 mov	13.6 ÷ 100 e digits 2 pl <i>ace</i> s 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 multiplier divisor

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



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

 $4.2 \times 5 = 42 \div 2$ 

 $56,000 \div 80 = 700$ 

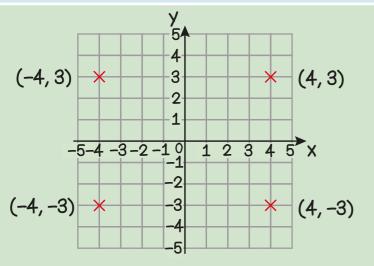
0139r3 24 3<sup>3</sup>3<sup>3</sup>3<sup>9</sup>9

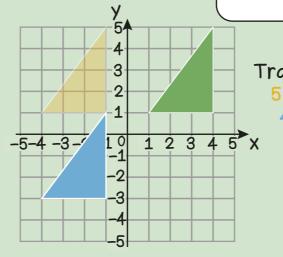
0 1 3 9 .1 2 5 24 3 3 3 9 .0 0 0 0

1	24 48
2	48
4	96
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

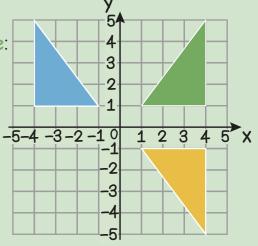


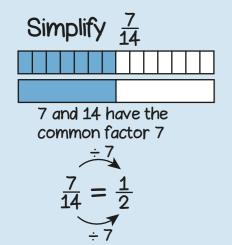


Translate the triangle 5 squares left and 4 squares down.

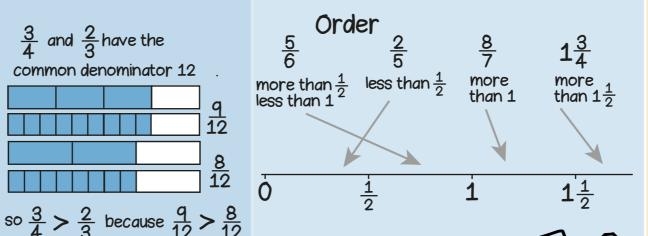


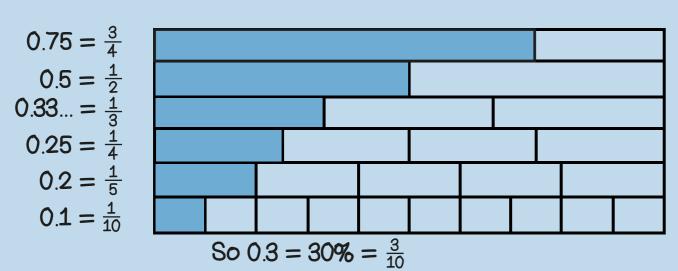
Reflect the triangle: in the x axis in the y axis



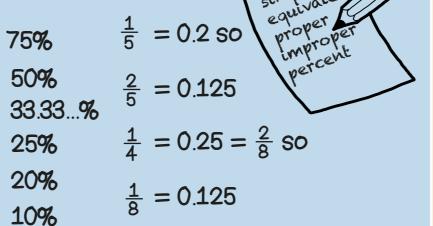


# Compare $\frac{3}{4}$ and $\frac{2}{3}$ have the common denominator 12 The larger the denominator

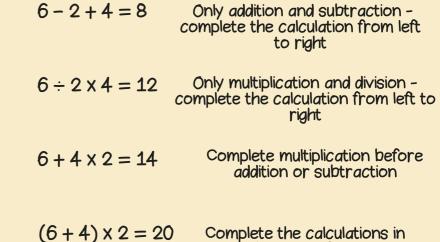


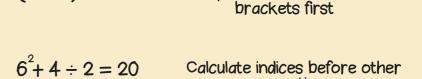


the smaller the equal parts.



### Order of Operations





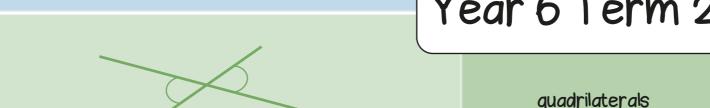
If I know... then I also know. because...

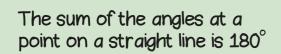
at least 2 lines of

symmetry

operations

# Year 6 Term 2

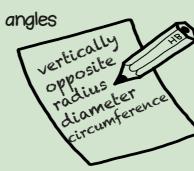




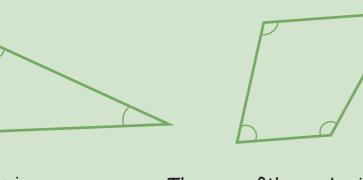
The sum of the angles at a

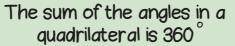
point is 360°

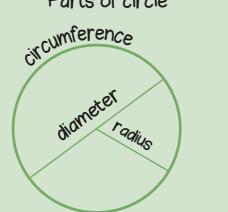
Vertically opposite angles are equal

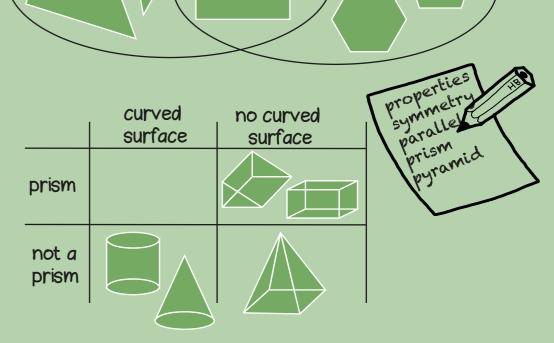












$$\frac{1}{3} + \frac{1}{4}$$

I can't describe the sum!.

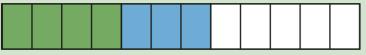


$$\frac{1}{3}=\frac{4}{12}$$

SO

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

Find a common denominator.



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

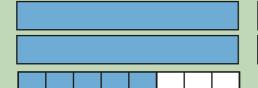
 $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$ 

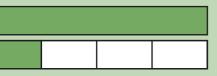
I can add fractions with the same denominator.

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

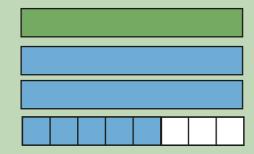
$$2\frac{5}{8} + 1\frac{1}{4}$$







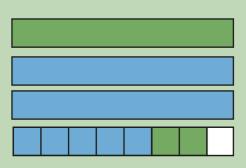
Add the whole numbers.



Add the fractions by finding a common denominator.

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







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

$$\frac{3}{4} - \frac{2}{3}$$

I can't describe the part that is left!



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

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

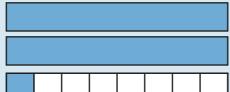
Find a common denominator.



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

I can subtract fractions with the same denominator

Subtracting mixed numbers.

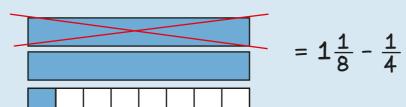


Subtract the whole numbers.

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

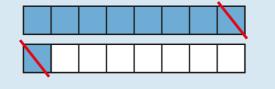


 $\frac{1}{3} \times \frac{2}{5} = \frac{2}{15}$ 



Subtract the fraction by finding a common denominator.

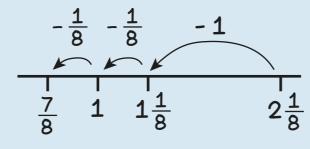
$$\frac{1}{4}=\frac{2}{8}$$



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

$$- \frac{7}{8}$$

Or on a number line.



Year 6 Term 3

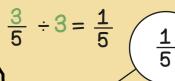


 $\frac{1}{2}$  of  $\frac{1}{4} = \frac{1}{8}$ 

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

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

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

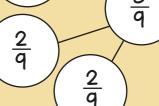


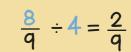


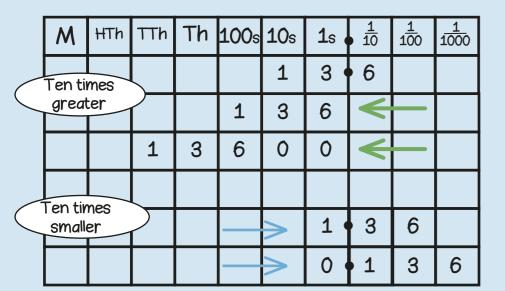












1km = 1000 m

 $13.6 \times 1000 = 13600$ 

so 13.6km = 13,600m

When converting from a larger unit

to a smaller unit, multiply because

there will be more of them.

1m = 100 cm

 $13.6 \times 100 = 1360$ 

so 13.6m = 1360cm

1cm = 10 mm

 $13.6 \times 10 = 136$ 

so 13.6cm = 136mm

www.buzzardpublishing.com

Converting units by multiplying and dividing 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

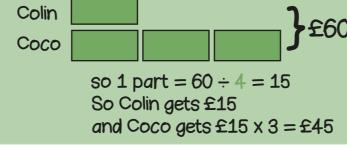
1kg = 1000 a $1360 \div 1000 = 1.36$ so 1360q = 1.36kq



3 green for every 2 yellow

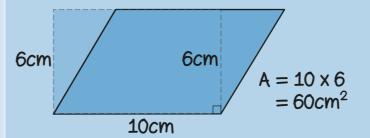


Colin and Coco share £60 Coco gets 3 x more than Colin.





Volume of a cuboid = length x width x height

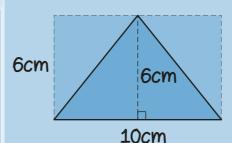


Area of a parallelogram

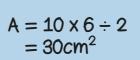
= base x perpendicular height

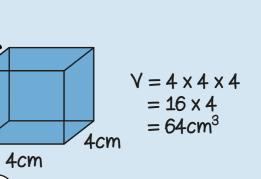
4cm 5cm 12cm converticular

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



volume  $A = \frac{1}{2} \times 10 \times 6$  $=30cm^2$ 



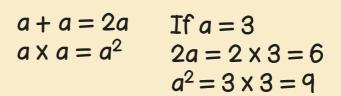


 $V = 12 \times 5 \times 4$ 

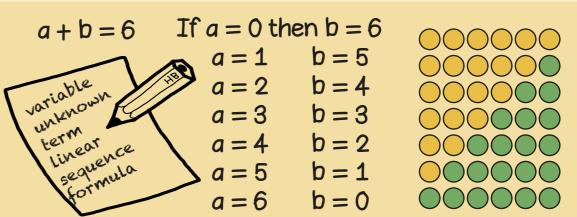
 $= 12 \times 20$ 

 $= 240 cm^3$ 

## Year 6 Term 4



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



4cm

