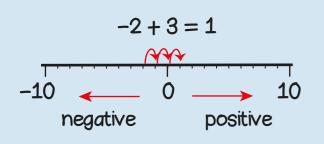
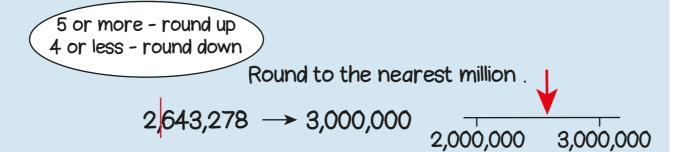


two million, five hundred and forty-three thousand, two hundred and forty-one

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

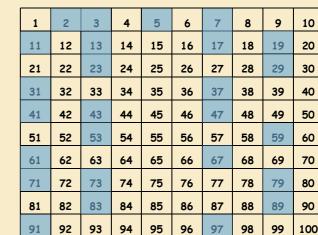




#### Multiplying and dividing by 10, 100 and 1000

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	greater			1	3	6	$\Psi$		move	digits one place left
		1	3	6	0	0	$\psi$		move	13.6 x 1000 digits 3 places left
T	en tim	PS								106 . 10
					<b>\</b>	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 sign of the prime common multiple factor multiplier divisor

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



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

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

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

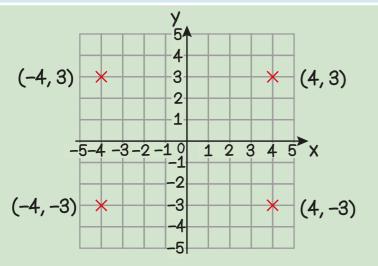
	<u>0139r</u>	3
24	3339	

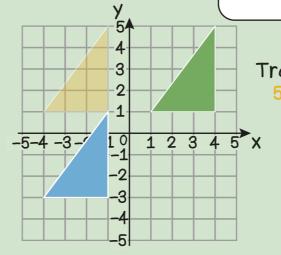
0 1 3 9 .1 2 5 24 3 3 9 3 9 .0 0 0

1	24
2	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

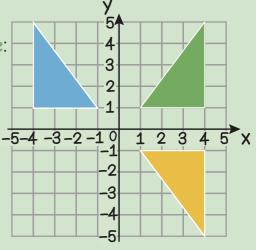


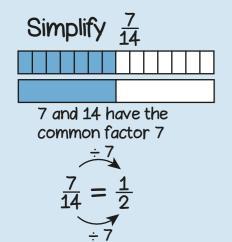


Translate the triangle 5 squares left and 4 squares down.

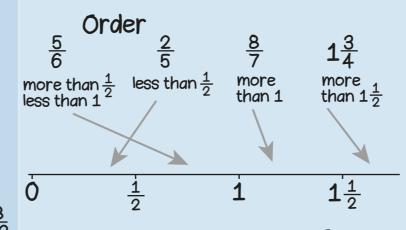
object image plot reflect translate

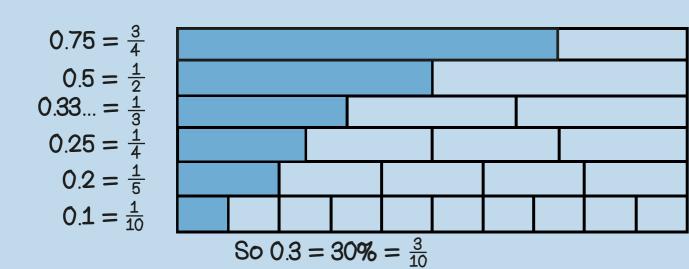
Reflect the triangle: in the x axis in the y axis

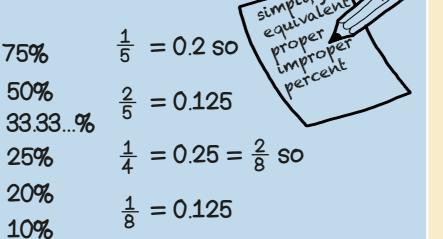




### Compare $\frac{3}{4}$ and $\frac{2}{3}$ have the common denominator 12 <u>9</u> 12 <u>8</u> 12 The larger the denominator so $\frac{3}{4} > \frac{2}{3}$ because $\frac{9}{12} > \frac{8}{12}$ the smaller the equal parts.

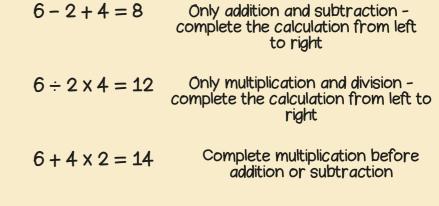


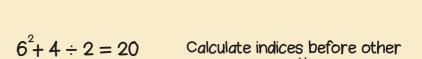




### Order of Operations

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





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

at least 2 lines of

symmetry

Complete the calculations in brackets first

operations

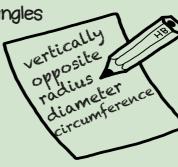
# Year 6 Term 2

quadrilaterals

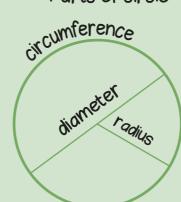


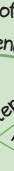
The sum of the angles at a point on a straight line is 180° The sum of the angles at a point is 360°

Vertically opposite angles are equal



Parts of circle





curved no curved surface surface prism not a prism



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!.

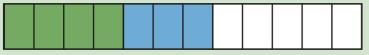


$$\frac{1}{3}=\frac{4}{12}$$

SO

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

Find a common denominator.



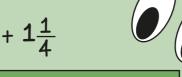
$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12} <$$

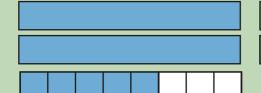
 $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$ 

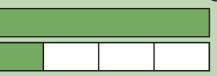
I can add fractions with the same denominator.

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

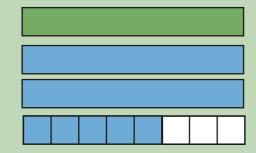
$$2\frac{5}{8} + 1\frac{1}{4}$$





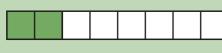


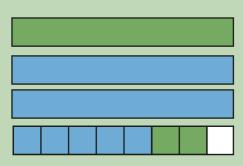
Add the whole numbers.



Add the fractions by finding a common denominator.

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







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

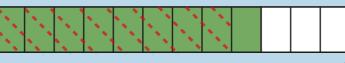
$$\frac{3}{4} - \frac{2}{3}$$

I can't describe the part that is left!

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

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

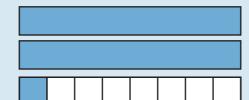
Find a common denominator.



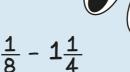
$$\frac{q}{12} - \frac{8}{12} = \frac{1}{12} <$$

I can subtract fractions with the same denominator

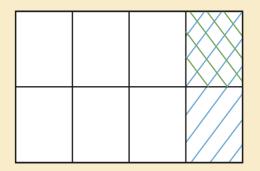
Subtracting mixed numbers.



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



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

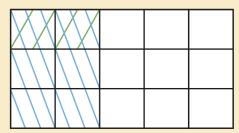


 $\frac{1}{2}$  of  $\frac{1}{4} = \frac{1}{8}$ 

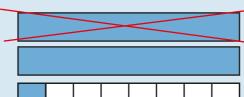
$$\frac{1}{3}$$
 of  $\frac{2}{5} = \frac{2}{15}$ 

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

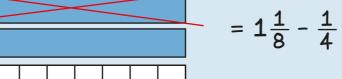
$$\frac{2}{5} \div 3 = \frac{2}{15}$$



Subtract the whole numbers.

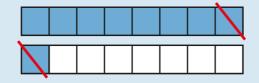


$$=1\frac{1}{8}-\frac{1}{4}$$



Subtract the fraction by finding a common denominator.

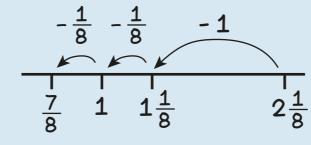
$$\frac{1}{4}=\frac{2}{8}$$



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

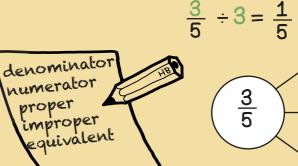
$$=\frac{7}{8}$$

Or on a number line.

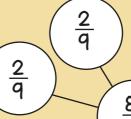


# Year 6 Term 3

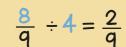




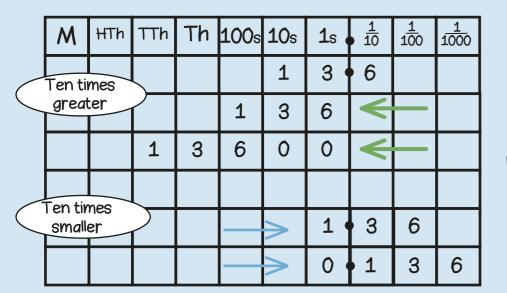




<u>2</u>







Converting units by 10, 100 and 1000

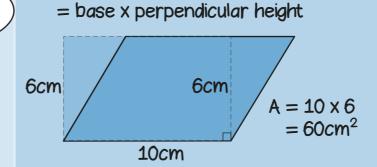
13.6 x 10 move digits 1 place left 13.6 x 1000 move digits 3 places left

 $136 \div 10$ 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

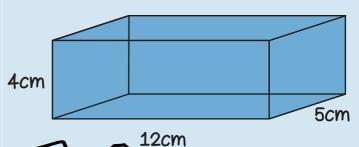
> 1kg = 1000 a $1360 \div 1000 = 1.36$ so 1360q = 1.36kq

multiplying and dividing by



Area of a parallelogram

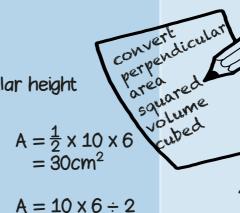
Volume of a cuboid = length x width x height



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

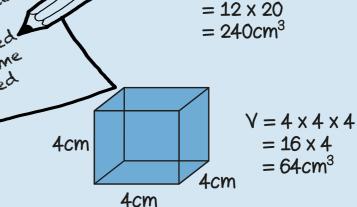
6cm

10cm



 $= 30 cm^2$ 

Year 6 Term 4



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.

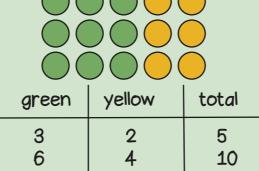
180

Find 50% of 240

2%

## 3 green for every 2 yellow

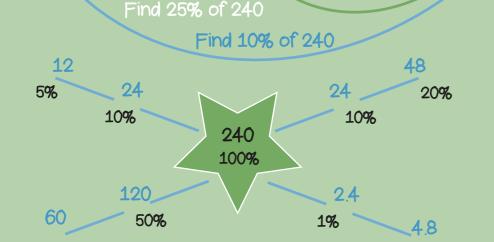
6cm



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

 $V = 12 \times 5 \times 4$ 



scale factor

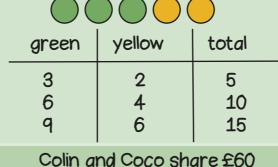
equivalent

percentage

similar

÷ 10

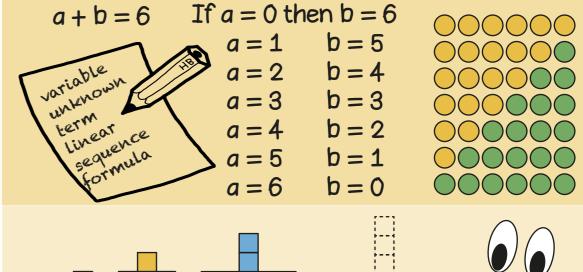
50

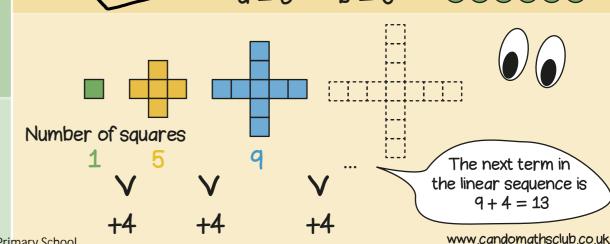


Coco gets 3 x more than Colin. Colin Coco

so 1 part =  $60 \div 4 = 15$ So Colin gets £15 and Coco gets £15  $\times$  3 = £45







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25%

240

100

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