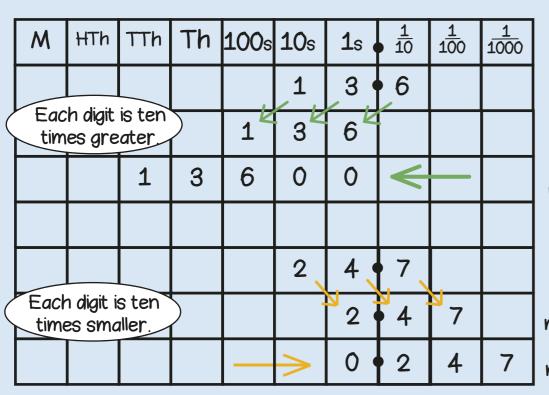


Multiplying and dividing by 10, 100 and 1000





 13.6×10 move digits 1 column left 13.6×1000 move digits 3 columns left

 $24.7 \div 10$ move digits 1 column right $24.7 \div 100$ move digits 2 columns right

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



 $1^{2} = 1 \times 1 = 1$ $2^{2} = 2 \times 2 = 4$ $3^{2} = 3 \times 3 = 9$

 $1^3 = 1 \times 1 \times 1 = 1$ $2^3 = 2 \times 2 \times 2 = 8$ $3^3 = 3 \times 3 \times 3 = 27$ A cube number is the result of multiplying a whole number by itself, then by itself again.

A square number is the

result of multiplying

a number by itself.

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

A composite number has more than 2 factors: 4, 6, 8, 9, 10, 12...



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

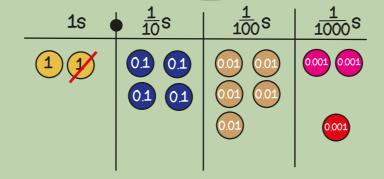
Factors of 15 = {1, 3, 5, 15} Factors of 21 = {1, 3, 7, 21} 1 and 3 are common factors of 15 and 21

Multiples of 3 are 3, 6, 9, 12 Multiples of 4 are 4, 8, 12, 16 12 is a common multiple of 3 and 4

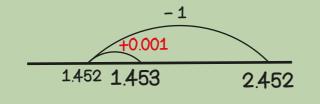


Year 5 Term 2

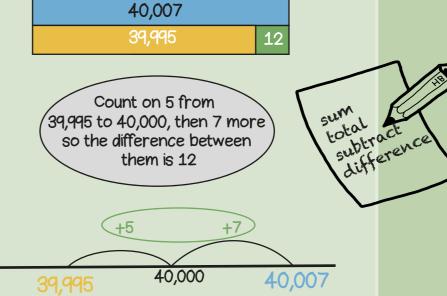




Take away 1 then add 1 thousandth



40,007 - 39,995 Find the difference between two numbers



Written methods

25,648

+ 42,524 68,172 ¹ ¹ ¹/₅,748 - 26,374 19,374 25.648 + 42.524 68.172 ¹ ¹ ¹/₅,748 - 26.374 19.374

can Do

+20,000 -1 63,452 83,451 83,452

Add 20,000 then subtract 1

63,452 + 19,999

Round then adjust

100s

100 100

100 (100)

10s

10 10

10 10

10

1s

1

1000s

1000 1000

(1000)

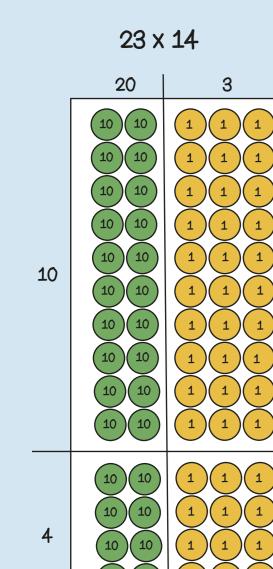
10,000s

10,000 10,000

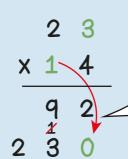
(10,000)

10,000

10,000



	20	3
10	200	30
4	80	12



 $\times 6 \overline{7}$

6

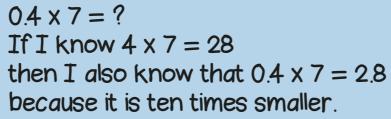
8

When I multiply the multiplicand by the tens digit of the multiplier I put a zero in the ones column.

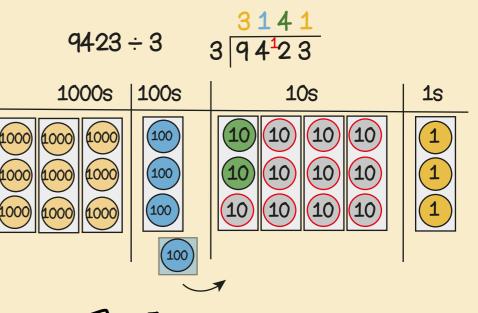
> In my head? With jottings? Formal written method?

$$30 \times 99 = 30 \times 100 - 30 \times 1$$

= $3000 - 30$
= 2970



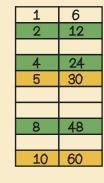
$$2.4 \times 3 = ?$$
If I know $24 \times 3 = 72$
then I also know $2.4 \times 3 = 7.2$
because it is ten times smaller.

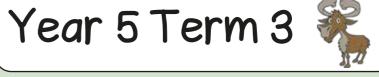




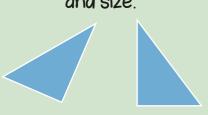
If I know... then I also know. because...

0576r1 63437

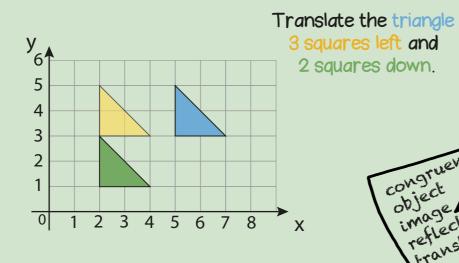


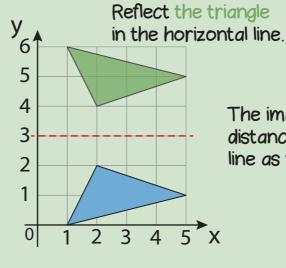


Congruent shapes are exactly the same shape and size.

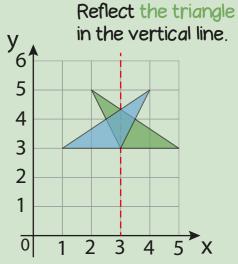


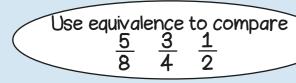


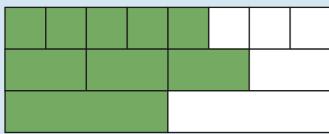




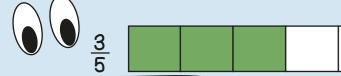
The image is the same distance from the mirror 3 line as the object.







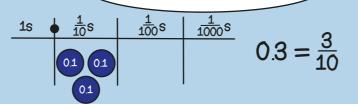
$$\frac{1}{2} < \frac{3}{4} < \frac{5}{8}$$

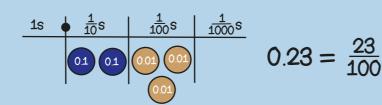


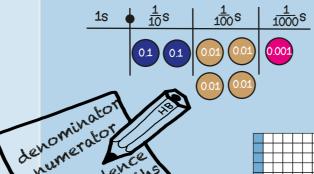
If there are 2 times as many equal parts, then there are 2 times as many shaded parts

3 _ 6						
$\overline{5} = \overline{10}$						
3 = 9						
는 = 1년						

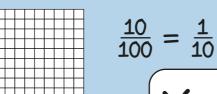
Decimals as fractions

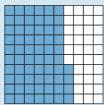




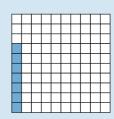


 $0.241 = \frac{241}{1000}$





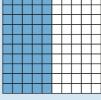
 $\frac{64}{100} = 0.64 = 64\%$



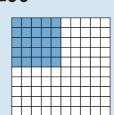
 $\frac{7}{100} = 0.07 = 7\%$

Percentage, decimal,

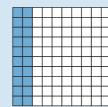
fraction equivalence



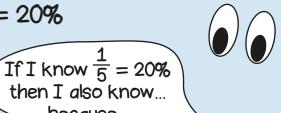
 $\frac{1}{2} = \frac{50}{100} = 0.5 = 50\%$



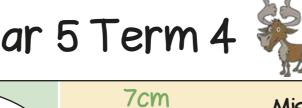
 $\frac{1}{4} = \frac{25}{100} = 0.25 = 25\%$



 $\frac{1}{5} = \frac{20}{100} = 0.2 = 20\%$



Year 5 Term 4



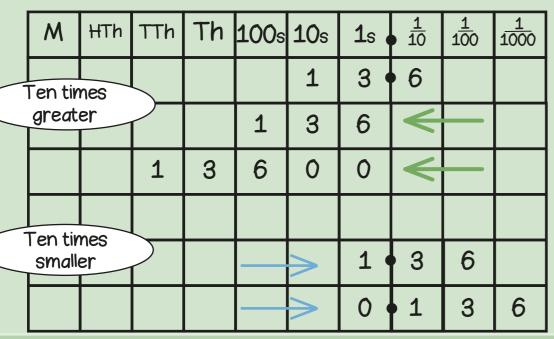
because... Missing width = w = 7 + 6 = 13cm

Missing height = h = 9 - 4 = 5cm

=9+7+h+6+4+w

Perimeter

=44cm



Converting units by multiplying and dividing by 10, 100 and 1000

imperial

CONVERT

perimeter ectilinear

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

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

2.5cm = approximately 1 inch

6cm

Oinch	2	4	6	8
O	<u>es</u> 5	10	15	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

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

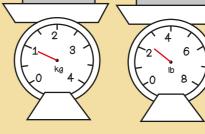
MUMErator

reentage

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

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

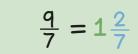
> 1kg = 1000 g $1360 \div 1000 = 1.36$ so 1360g = 1.36kg



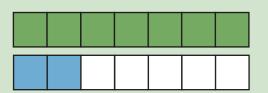
1kg = approximately 2 pounds

1 litre = approximately 2 pints





One and two sevenths is the whole One is a part Two sevenths is a part



<u>2</u> 7

$$\frac{1}{4} + \frac{3}{8} =$$

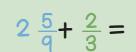
I can't describe the sum!

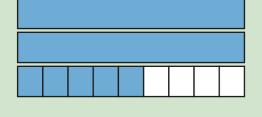


Find a common denominator.



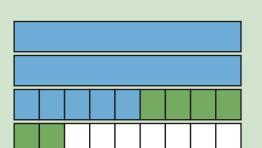
I can add fractions with the same denominator.





Add the fractions by finding a common denominator.

$$\frac{2}{3} = \frac{6}{9}$$



$$2\frac{5}{9} + \frac{6}{9} = 2\frac{11}{9}$$

$$=3\frac{2}{9}$$





$$\frac{3}{5} = \frac{6}{10}$$

 $\frac{3}{5} - \frac{3}{10} =$

Find a common denominator.

How can I subtract $\frac{3}{10}$?



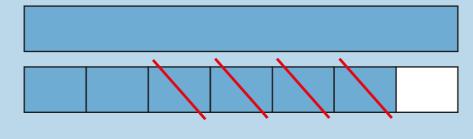
$$\frac{6}{10} - \frac{3}{10} = \frac{3}{10}$$

I can subtract fractions with the same denominator

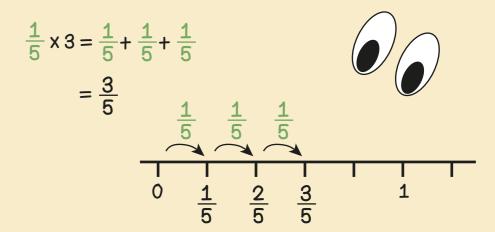
Year 5 Term 5

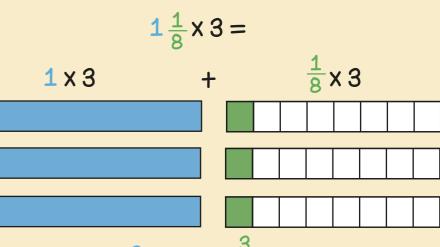


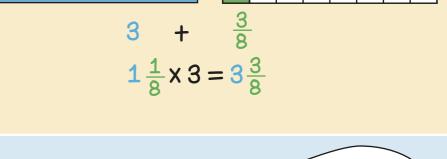
I can subtract fractions with the same denominator

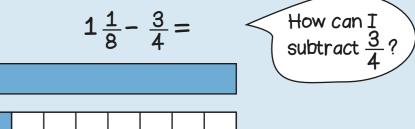


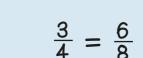
$$1\frac{6}{7} - \frac{4}{7} = 1\frac{2}{7}$$



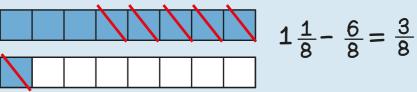


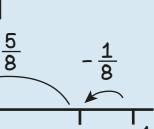


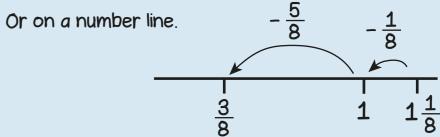


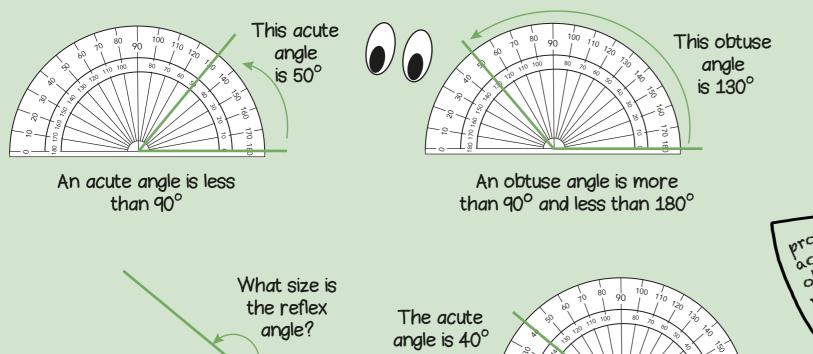


Find a common denominator.

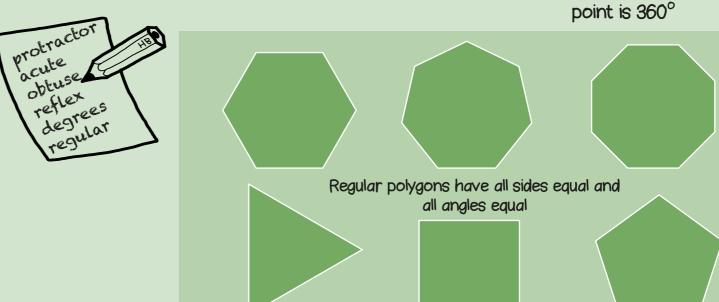




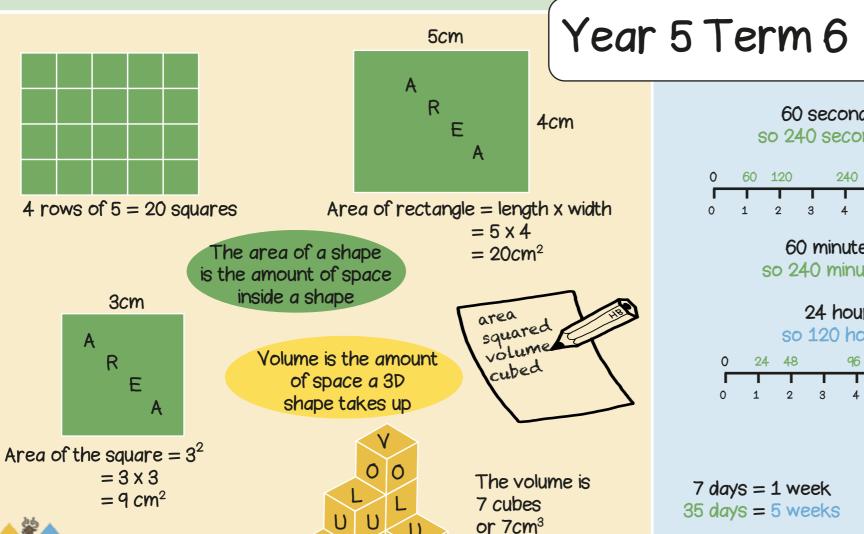




The reflex angle is $360^{\circ} - 40^{\circ} = 320^{\circ}$

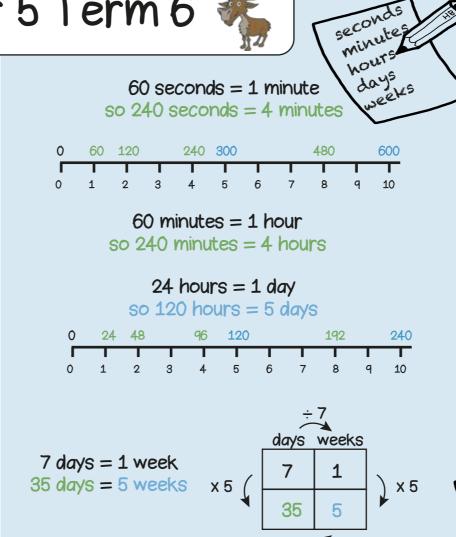


The sum of the angles at a point on a straight line is 180°



A reflex angle is more than 180° and less than 360°

www.buzzardpublishing.com

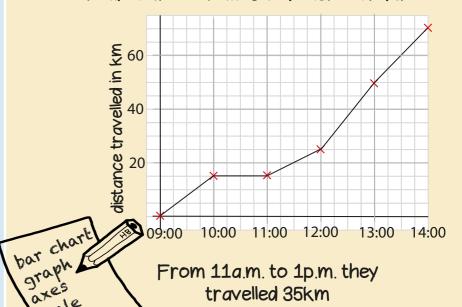


Bus timetable

	Ashley	09:30	11:50	16:15	
	Barton	10:10	12:30	17:00	
	Calford	10:52	13:12	17:44	
	Digley	11:08	13:28	18:02	

The sum of the angles at a

The 11:50 bus from Ashley takes 1 hour and 22 minutes to reach Calford



www.candomathsclub.co.uk

Licensed to and for the exclusive use for School organisation_Drove Primary School