Old Bank Primary Academy



Chapter 6 - Year Five

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	<u>Summer 2</u>
Year 5	Revise Y1-2	Revise Y1-2	Revise Y1-2	As per Spring 1	As per Spring 2	As per Summer 1
(1 – 12 x tables, 1 –	Strategies. Revise Y3-4	Strategies. Revise Y3-4	Strategies. Revise Y3-4	Multiply a fraction by a whole	Increase and decrease integers	Divide by 8
6 x tables inverses)	Strategies.	Strategies.	Strategies.	number.	by scale factors.	Find 12.5%
	Add fractions with different	Add / subtract fractions different	Add / subtract fractions different	Multiply by 2.5	Divide a fraction by a whole number.	Find 11%
	denominators.	denominators.	denominators.	Multiply by 12.5		Find 2.5%
	Subtract fractions with different	Multiply by 0.9	Multiply by 0.9 or 9.9			
	denominators.	Multiply by 9.9	Find 90%			
			Find 80%			
			Multiply by 0.8			

- All green concepts are new learning for the half term.
- All black concepts are revision of prior learning.
- There are 16 key concepts to learn and understand during Year Five.
- In addition, the 1-6 x tables are expected to be known as inverses / times tables families with instant recall.
- During Year Five, all Key Stage 1 and LKS2 concepts will be revised and consolidated on a half-termly basis.

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Adding fractions together with different denominators What is a 'Common Denominator'?	 Multiply or divide to find a common denominator. Remember to do this to both the numerator and the denominators. Add together the new numerators Leave the denominators! 	 4/14 + 2/7 = ? 4/14 can be made into 2/7 or 2/7 can be made into 4/14 4 + 2 = 6 So, 4/14 + 4/14 = 8/14 Or, 2/7 + 2/7 = 4/7

Page 23 – Adding Fractions

3/5 + 1/4	5/21 + 2/14	8/36 + 1/18
2/6 + 1/4	4/15 + 2/5	2/3 + 2/12
3/24 + 5/8	3/18 + 1/9	9/25 + 3/15
6/14 + 1/5	7/11 + 3/7	20/35 + 3/21

2/3 + 1/4	3/7 + 2/14	4/9 + 1/18
3/8 + 1/4	6/10 + 2/5	1/3 + 2/27
2/16 + 3/8	2/3 + 1/9	2/5 + 1/15
1/4 + 1/6	2/9 + 3/7	2/8 + 3/7

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Subtracting fractions with different denominators What is a 'Common Denominator'?	 Multiply or divide to find a common denominator. Remember to do this to both the numerator and the denominators. Subtract the new numerators Leave the denominators! 	 10/14 - 2/7 = ? 10/14 can be made into 5/7 or 2/7 can be made into 4/14 5 - 2 = 3 or 10 - 4 = 7 So, 5/7 - 2/7 = 3/7 Or, 10/14 - 4/14 = 6/14

2/3 - 1/4	3/7 - 2/14	4/9 - 1/18
3/8 - 1/4	6/10 - 2/5	1/3 - 2/27
12/16 - 3/8	2/3 - 1/9	2/5 - 1/15
1/4 - 1/6	5/9 - 3/7	4/8 - 7/14

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Multiply any number by 0.9	 Divide your starting number by 10. Subtract this from your starting number. 	 70 x 0.9 = ? 70 ÷ 10 = 7 70 - 7 = 63 So, 70 x 0.9 = 63

80 x 0.9	100 x 0.9	80 x 0.9
170 x 0.9	450 x 0.9	800 x 0.9
3,200 x 0.9	45 x 0.9	8,000 x 0.9
16 x 0.9	0.6 x 0.9	1.3 x 0.9

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Multiply any number by 9.9	 Divide your starting number by 10 (answer 1) Multiply your starting number by 10 (answer 2) Subtract answer 1 from 2 	 60 x 9.9 = ? 60 x 10 = 600 60 ÷ 10 = 6 600 - 6 = 594 So, 60 x 9.9 = 594

60 x 9.9	100 x 9.9	80 x 9.9
170 x 9.9	450 x 9.9	800 x 9.9
3,200 x 9.9	45 x 9.9	8,000 x 9.9
16 x 9.9	0.6 x 9.9	1.3 x 9.9

30 x 9.9	80 x 9.9	70 x 9.9
140 x 9.9	860 x 9.9	300 x 9.9
3,600 x 9.9	75 x 9.9	9,400 x 9.9
17 x 9.9	0.4 x 9.9	1.6 x 9.9

297	792	693
126	851.4	2,970
35,640	742.5	93,060
168.3	3.96	15.84

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Find 90% of any number	 Understand that 90% = 9/10 Understand that 90% = 0.9 Follow our Smart Strategy for multiplying any number by 0.9 	 70 x 0.9 = ? 70 ÷ 10 = 7 70 - 7 = 63 So, 70 x 0.9 = 63

60 x 90%	100 x 90%	80 x 9/10
170 x 90%	90% x 450	800 x 0.9
320 x 90%	90% of 45	564 x 90%
90% of 16	0.6 x 90%	90% x 1.3

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Find 80% of any number	 Understand that 80% = 8/10 Divide your starting number by 10 then multiply by 8. Or, because 8/10 = 4/5, divide by 5 and multiply by 4 	 80% of 90 = ? 90 ÷ 10 = 9 9 x 8 = 72 Or, 90 ÷ 5 = 18, 18 x 4 = 72 So, 80% of 90 = 72

60 x 80%	100 x 80%	80 x 8/10
170 x 80%	80% x 450	800 x 4/5
320 x 80%	80% of 45	560 x 80%
80% of 16	0.6 x 80%	80% x 1.3

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Multiply any number by 0.8	 Understand that 0.8 = 8/10 and that 0.8 = 80% Follow our Smart Strategy for finding 80% of any number 	 90 x 0.8 = ? 90 ÷ 10 = 9 9 x 8 = 72 Or, 90 ÷ 5 = 18, 18 x 4 = 72 So, 90 x 0.8 = 72

60 x 0.8	100 x 80%	190 x 8/10
170 x 0.8	0.8 x 450	650 x 4/5
320 x 0.8	0.8 of 45	560 x 0.8
0.8 x 16	0.6 x 0.8	0.8 x 1.3

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Multiply a fraction by a whole number.	 Multiply your numerator by the whole number, also known as a 'multiplier'. Leave the denominator. Simplify if possible 	 5/6 x 6 = ? 5 x 6 = 30 5/6 x 6 = 30/6 This can be simplified to 5/1 or simply '5'

2/3 x 5	1/3 x 18	12/15 x 7
4/7 x 3	8/14 x 8	9/15 x 8
9/11 x 7	12/17 x 9	5/19 x 16
13/4 x 16	8/15 x 26	4/7 x 6.5

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Multiply any Number by 2.5	 Double your starting number Halve your starting number Add your two answers together 	 240 x 2.5 = ? 240 x 2 = 480 ½ of 240 = 120 480 + 120 = 600 So, 240 x 2.5 = 600

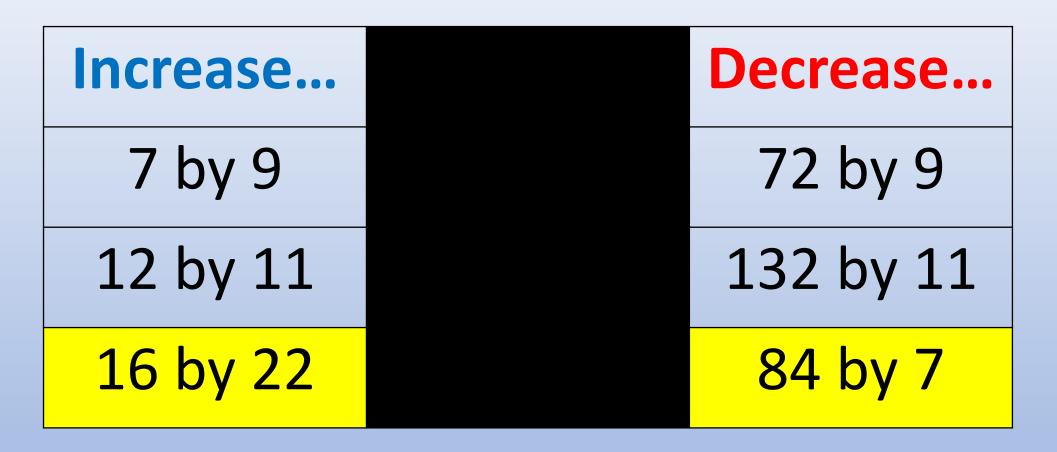
6 x 2.5	12 x 2.5	86 x 2.5
14 x 2.5	18 x 2.5	942 x 2.5
26 x 2.5	124 x 2.5	726 x 2.5
370 x 2.5	48.8 x 2.5	6.46 x 2.5

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Multiply any Number by 12.5	 Multiply your number by 10 Follow our Smart Strategy to multiply any number by 2.5 Add your two answers together. 	 240 x 12.5 = ? 240 x 10 = 2,400 240 x 2 = 480 ½ of 240 = 120 480 + 120 = 600 2,400 + 600 = 3,000 So, 240 x 12.5 = 3,000

6 x 12.5	12 x 12.5	86 x 12.5
14 x 12.5	18 x 12.5	942 x 12.5
26 x 12.5	124 x 12.5	726 x 12.5
370 x 12.5	48.8 x 12.5	6.46 x 12.5

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Increase and decrease integers by scale factors.	 Understand that 'increase' means to multiply by and 'decrease' means to divide by any given number. 	 8 increased by a scale factor of 7 = 8 x 7 = 56 72 decreased by a scale factor of 9 = 72 ÷ 9 = 8

Increase N by a scale factor of



Decrease N by a scale factor of _

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Divide a fraction by a whole number.	 Divide your numerator by the divisor (whole number). 	 2/3 ÷ 2 = ? 2 ÷ 2 = 1, so it's 1/3 4/7 ÷ 3 = ? 7 x 3 = 21 so it's
	 If this is impossible, multiply your divisor by the denominator instead. 	4/21

2/3 ÷ 5	1/3 ÷ 18	12/15 ÷ 7
4/7 ÷ 4	8/14 ÷ 8	16/15 ÷ 8
9/11 ÷ 7	18/25 ÷ 9	45/59 ÷ 15
13/14 ÷ 16	8/15 ÷ 25	4/7 ÷ 6

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Divide any number by 8	 Halve your starting number Halve it again, then again. Or, if you can, use a bus stop division and 8x tables facts 	 7,280 ÷ 8 = ? 7,280 ÷ 2 = 3,640 3,640 ÷ 2 = 1,820 1,820 ÷ 2 = 910

240 ÷ 8	368 ÷ 8	160 ÷ 8
480 ÷ 8	432 ÷ 8	1,600 ÷ 8
960 ÷ 8	1,248 ÷ 8	456 ÷ 8
3,280 ÷ 8	8.4 ÷ 8	184 ÷ 8

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Find 12.5% of any number	 Follow our Smart Strategy for dividing any number by 8 Or, find 10% and then find 2.5%, adding them together 	 12.5% of 8,000 = ? 8,000 ÷ 8 = 1,000 Or, 10% = 800 and 2.5% = 200 so 800 + 200 = 1,000

240 x 12.5%	12.5% of 368	160 x 12.5%
480 x 12.5%	432 x 12.5%	600 x 12.5%
12.5% of 960	12.5% of 248	456 x 12.5%
12.5% of	8.4	12.5% of
3,280	x 12.5%	1,840

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Find 11% of any number	 Divide starting number by 10 Divide starting number by 100 Add both answers together 	 11% of 3,400 = ? 3,400 ÷ 10 = 340 3,400 ÷ 100 = 34 340 + 34 = 374

240 x 11%	11% of 368	160 x 11%
480 x 11%	432 x 11%	600 x 11%
11% of 960	11% of 248	456 x 11%
11%	8.4	11%
of 3,280	x 11%	of 1,840

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Find 2.5% of any number	 Divide your starting number by 100 to find 1% Follow our Smart Strategy to multiply any number by 2.5 	 2.5% of 2,600 = ? 2,600 ÷ 100 = 26 26 x 2 = 52 ½ of 26 = 13 52 + 13 = 65

240 x 2.5%	2.5% of 368	160 x 2.5%
480 x 2.5%	432 x 2.5%	600 x 2.5%
2.5% of 960	2.5% of 248	456 x 2.5%
2.5% of	8.4	2.5% of
3,280	x 2.5%	1,840

<u>Chapter 7 – Year Six</u>

	Autumn 1	Autumn 2	Spring 1	Spring 2	<u>Summer term</u>
Year 6	Revise Y1-2 Strategies.	As per Autumn 1 Multiply a fraction	As per Autumn 2 Convert an	As per Spring 1 Apply X / ÷ by 10,	Revision of all Smart Strategies.
(1 – 12 x tables, 1 – 12 x tables inverses)	Revise Y3-4 Strategies. Revise Y5 Strategies.	by a fraction. Convert a mixed number to an improper fraction	improper fraction to a mixed number Divide a fraction by another fraction.	100 and 1000 to converting measures.	Daily sessions, Mathsbot.com, SATs past paper workshops, targeted starter tasks.
	Fractions of amounts. Calculate percentages.		Divide a decimal number by a one- digit divisor.		
	Find 0.5% of a number.				

- All green concepts are new learning for the half term.
- All black concepts are revision of prior learning.
- There are 9 key concepts to learn and understand during Year Six, including complex conversions knowledge.
- In addition, the all x tables are expected to be known as inverses / times tables families with instant recall.
- During Year Six, all Years 1-5 concepts will be revised and consolidated on a half-termly basis.

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Calculate fractions of amounts	 Divide your starting number by the denominator (bottom) using a bus stop method. Multiply the answer by your numerator (top). Remember to use any unit of measure needed, eg: £, kg 	 4/7 of £5,635 = ? 5,635 ÷ 7 = 805 805 x 4 = 3,220 So, 4/7 of £5,635 = £3,220

2/5 of 750	5/6 of 660	2/7 of 350
4/11 of 121	3/8 of 960	3/2 of 840
7/9 of 630	5/8 of 7,264	7/3 of 51
3/16 of 4,800	12/5 of 455	11/3 of 510

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
	 Divide your starting 	• 13% of 700 = ?
Calculate percentages	number by 100 to	• 700 ÷ 100 = 7
of amounts	find 1%	• 7 x 10 = 70, 7 x 3 =
	 Multiply the 	21
	answer by	• So, 7 x 13 must be
	whatever	91
	percentage you are	• 13% of 700 = 91
	looking for.	

6% of 700	11% of 600	4% of 3,500
11% of 1,500	21% of 1,400	2% of 840
20% of 600	8% of 1,200	7% of 500
17% of 4,800	3% of 455	4.5% of 500

13% of 700	15% of 600	3% of 3,500
4% of 1,500	12% of 1,400	7% of 840
16% of 600	51% of 1,200	98% of 500
38% of 4,800	8% of 455	3.5% of 500

13% of 900	6% of 8,000	9% of 3,500
7% of 1,500	8% of 1,800	5% of 840
4% of 20,000	51% of 3,400	97% of 900
38% of 7,600	7% of 675	7.5% of 800

<u>AIM</u>	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Calculate <i>higher</i> percentages of amounts	 For some percentages, it's easier to use number bonds to 100 and subtract. For example, finding 98% is easier if you find 2% then subtract this from your starting number rather than multiplying by 98. 	 93% of 800 = ? 100 - 93 = 7 Let's find 7% and subtract 800 ÷ 100 = 8 8 x 7 = 56 800 - 56 = 744 So, 93% of 800 = 744

96% of 700	95% of 600	94% of 3,000
91% of 1,500	99% of 1,400	92% of 840
93% of 600	98% of 1,200	97% of 500
97% of 4,800	83% of 450	85% of 500

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Find 0.5% of any number	 Divide your starting number by 100 to find 1%. Halve your answer to find half of one percent. 	 0.5% of 680 680 ÷ 100 = 6.8 ½ of 6.8 = 3.4 So, 0.5% of 680 = 3.4

240 x 0.5%	0.5% of 300	1,600 x 0.5%
480 x 0.5%	400 x 0.5%	600 x 0.5%
0.5% of 960	0.5% of 248	760 x 0.5%
0.5% of	8.4	0.5% of
3,280	x 0.5%	1,840

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Multiply a fraction by another fraction	 Multiply the numerators Multiply the denominators Simplify if possible 	 2/3 x 4/5 = ? 2 x 4 = 8 3 x 5 = 15 2/3 x 4/5 = 8/15

2/3 x 3/8	7/8 x 3/5	4/7 x 2/5
5/6 x 9/12	2/9 x 9/14	3/6 x 3/6
11/13 x 7/9	18/20 x 9/10	7/9 x 7/8
16/19 x 17/21	13/19 x 23/35	34/50 x 14/20

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Convert a mixed number to an improper fraction	 Multiply the whole number by the denominator. Add the numerator of the fraction. 	 5¼ = ? 5 x 4 = 20 20 + 1 = 21 5¼ = 21/4

2 and 3/8	7 and 4/7	10 and 2/5
3 and 1/6	9 and 3/9	19 and 2/3
13 and 7/10	12 and 1/2	18 and 2/4
85 1/4	91 ½	346 1/4

4 and 5/8	8 and 4/9	9 and 2/7
6 and 2/7	12 and 3/5	17 and 2/3
26 and 7/10	16 and 3/4	40 and 7/8
435 1/4	236 ½	873 and 1/5

AIM	<u>S</u>	MART STRATEGY (Tell me)	EXAMPLE (Show Me)
Convert an important fraction to a mixed num	oroper onber	Divide the denominator by the numerator to find the whole number. Use the remainder to create a new numerator. Do not change the denominator.	 23/5 = ? 23 ÷ 5 = 4 r3 23/5 = 4 and 3/5

12/5	16/7	21/4
19/9	34/5	37/6
757/3	3,546/8	438/7
320/15	267/13	235/23

2 and 2/5	2 and 2/7	5 and 1/4
2 and 1/9	6 and 4/5	6 and 1/6
252 and	443 and	62 and 4/7
1/3	2/8 (1/4)	
21 and	20 and	10 and
5/15 (1/3)	7/13	5/23

AIM	SMART STRATEGY (Tell me)	EXAMPLE (Show Me)
Divide a fraction by another fraction.	 For the fraction you are dividing by (divisor), swap the numerator and denominator around. Follow our Smart 	Multiply by the reciprocal of the divisor. Find the product and simplify $ \frac{3}{4} \div \frac{1}{8} \qquad \frac{3}{4} \times \frac{8}{1} = \frac{24}{4} $ $ = 6 $
	Strategy for multiplying a fraction by another fraction.	Let's have a closer look on the next slide

Multiply by the reciprocal of the divisor.

$$\frac{3}{4} \div \frac{1}{8}$$

$$\frac{3}{4} \times \frac{8}{1}$$

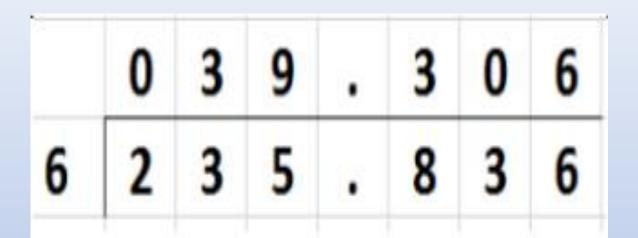
Find the product and simplify

$$\frac{3}{4} \times \frac{8}{1} = \frac{24}{4}$$

- 1. One over eight is swapped to become eight over one.
- 2. The division symbol is then swapped for a multiplication.
- 3. Here, we now see 3 x 8 and 4 x 1 because we have turned the problem into a fraction x fraction task.

	9/84 ÷ 8/17	
6/9 ÷ 8/9	1,248 ÷ 8	456 ÷ 8
4/5 ÷ 5/8	432 ÷ 8	1,600 ÷ 8
2/5 ÷ 3/4	368 ÷ 8	160 ÷ 8

AIM	SMART STRATEGY (Tell me)					<u>/le</u>		
Divide a decimal number by a one-digit divisor.	 Place a decimal point at the end of your dividend. Continue writing past the decimal point with '0' Place a decimal point directly above the first, on top of the bus stop. Continue the division. 	and t	aends dity to ron tabl	recogn les fac	ise the	e need	to ap	ply



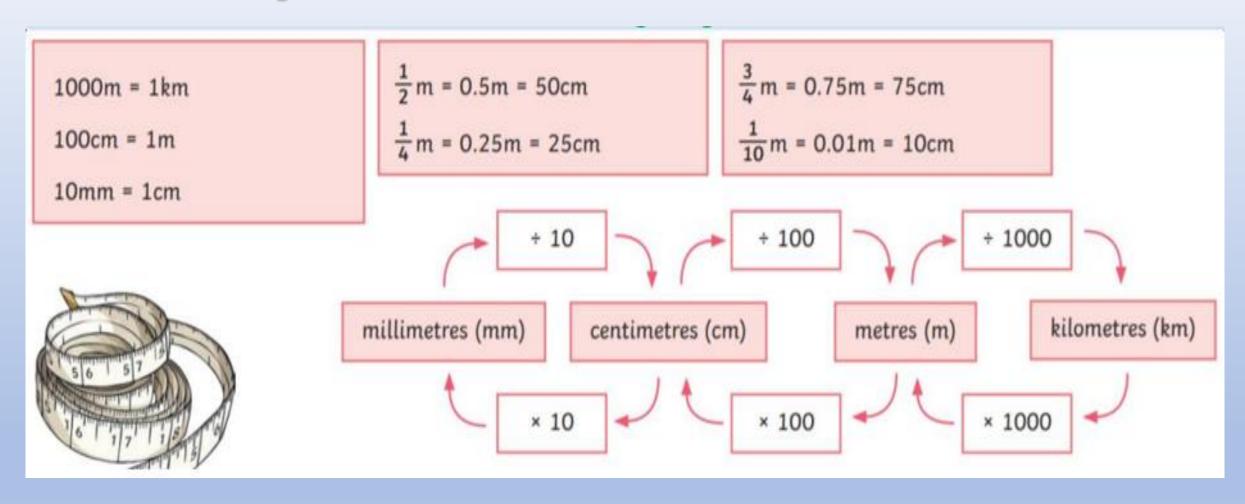
Success depends on the decimal points aligning and the ability to recognise the need to apply multiplication tables facts from Y1-4.

- This method allows us to carry on instead of needing to stop at a remainder.
- It is well-suited to calculations involving money or measures.
- Make sure the decimal points align and just carry on the calculation...

55 ÷ 4	368mm ÷ 6	163kg ÷ 2
475kg ÷ 8	43.2cm ÷ 7	£57.60 ÷ 5
6150g ÷ 9	1,248 ÷ 3	459.6 ÷ 3
37.14g ÷ 5	968.4g ÷ 8	23.94g ÷ 7

Stop after ??? decimal places;)

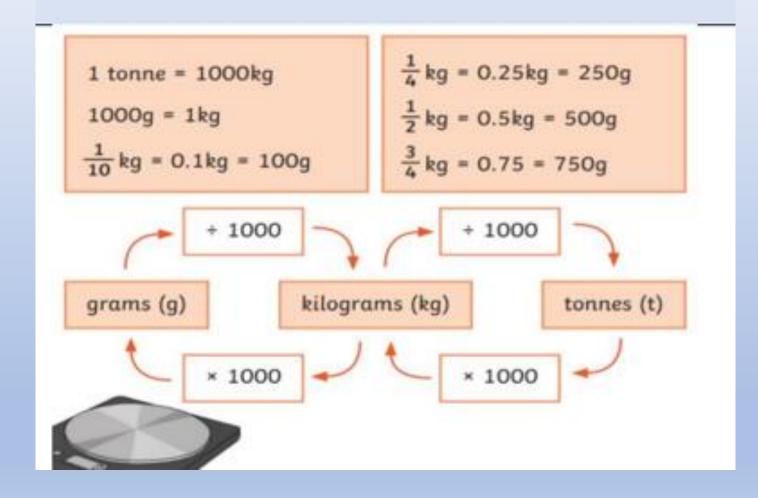
See your SS Document at the back



This will help you with the next page...

36km =m	cm = 2m	km = 8,600m
475m =km	mm = 86cm	km = 900m
18cm =mm	mm = 1m	m = 576cm
18cm =m	18cm =km	mm = 4.5m

Converting Mass



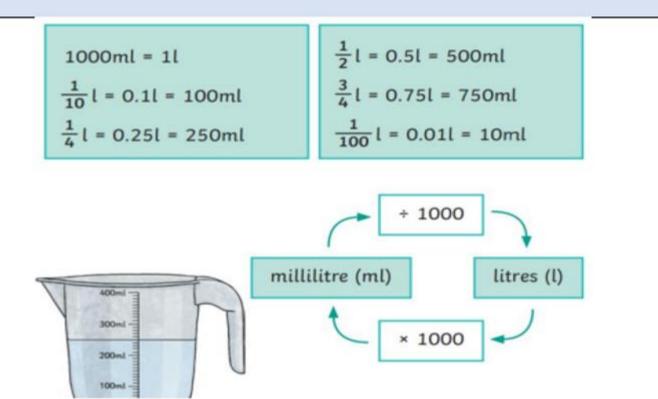
- There are similarities here with converting metric measurements for length and capacity / volume.
- 2. Notice how we multiply by 1,000 to turn a larger unit into a smaller one (because there are more of them).
- To turn a smaller unit into a larger one, we divide by 1,000 as there are fewer.

How do we multiply by 1,000 easily?

36kg =g	g = 2kg	kg = 8,600g
475g =kg	g = 86kg	kg = 900g
18kg =g	kg = 100g	kg = 576g
18.6kg =g	1.096kg =g	kg = 45g

How do we divide by 1,000 easily?

Converting Capacity



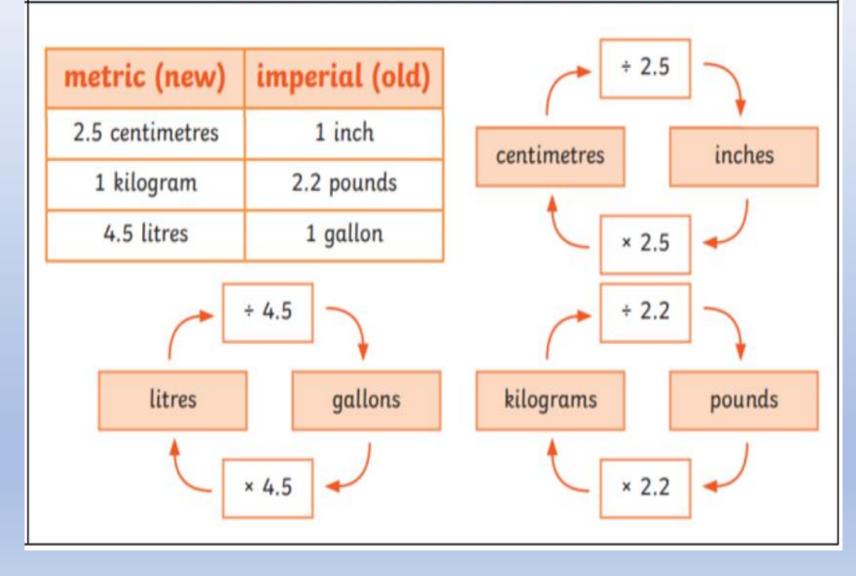
- There are similarities here with converting metric measurements for length and mass / weight.
- Notice how we multiply by 1,000 to turn a larger unit into a smaller one (because there are more of them).
- To turn a smaller unit into a larger one, we divide by 1,000 as there are fewer.

How do we multiply by 1,000 easily?

36 li =ml	ml = 2 li	li = 8,600ml
475 li =ml	li = 8 li	li = 900ml
1,800ml =li	li = 100ml	ml = 5.7 li
18.6 li =ml	1.96 li =ml	ml = 45 li

How do we divide by 1,000 easily?

Metric to Imperial Conversions

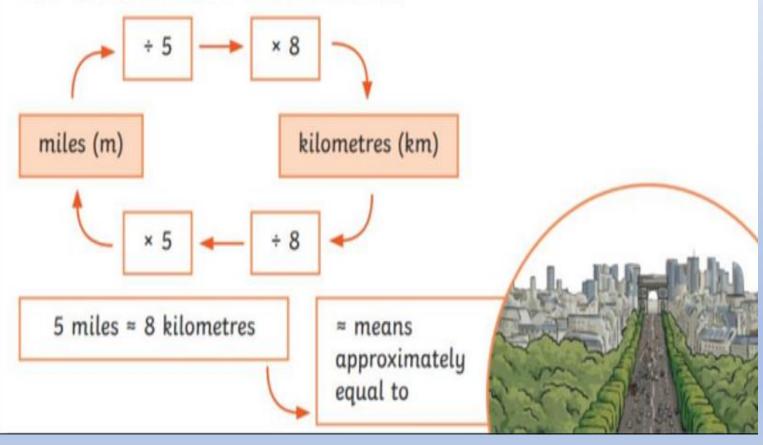


- 1. The easiest way to divide by 2.5 is to divide by 5 then just double your answer.
- 2. The easiest way to divide by 2.2 is to multiply your original number by 10 then divide by 22
- Multiplying by 2.2 is the same as doubling then adding 1/5 of your starting number.
- 4. Multiplying by 4.5 is the same as multiplying by 4 then adding half of your original number.
- 5. The easiest way to divide by 4.5 is to divide by 9 then just double your answer.

4 feet =	inches	inches
inches	= 2.5 feet	= 13 feet
lbs	kg	lbs
= 5kg	= 22 lbs	= 20kg
3 gallons	27 gallons	20 litres
= litres	= litres	= gallons
200 inches	4.5 gallons	38kg
= feet	= litres	= lbs

Miles to Kilometres

You might measure the length of a road or the distance between two cities in miles or kilometres.



- 1. There are 8km in every 5 miles.
- This means 1 mile = 1.6km
- 3. It also means, as a fraction, 1km = 5/8 of a mile.
- It also means, as an improper fraction, 1 mile is 8/5 of a km.
- To convert miles into km, you must divide by 5 then multiply by 8.
- 6. To convert km into miles, you need to divide by 8 then multiply by 5.

8 miles	80 miles	800 miles
=km	=km	=km
24km	240km	2,400km
= miles	= miles	= miles
65 miles	750 miles	875 miles
=km	=km	=km
18km	3,000km	680km
= miles	= miles	= miles

Time

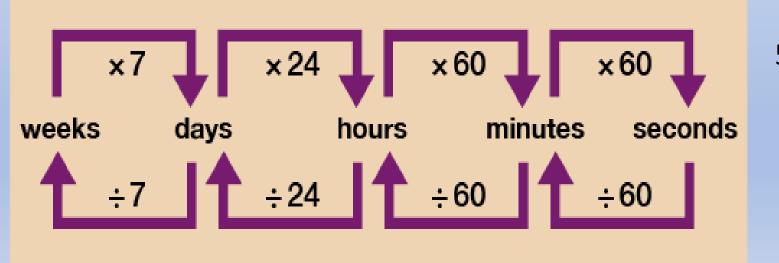
Minute 1 minute = 60 seconds

Hour 1 hour = 60 minutes

Day 1 day = 24 hours

Week 1 week = 7 days

Year 1 year = 12 months = 52 weeks = 365 days



- 1. To turn weeks into years, we divide by 52.
- 2. To turn years into weeks, we multiply by 52.
- 3. To turn days into years, we divide by 365.
- 4. To turn years into days, we multiply by 365
- 5. There is a misconception that a month lasts 4 weeks and this is not true if it were true, there would be 13 months in a year instead of 12 because 52 ÷ 4 = 13, not 12.

8 minutes	480 seconds	1 ¼ hours
=seconds	=minutes	= minutes
28 days	1 hour	4 years
= weeks	= seconds	= weeks
1 week	90 minutes	840 seconds
= hours	= hours	= minutes
1.8 hours	2.5 years	68 hours
= minutes	= weeks	= seconds

Imperial Measures

Things that could be measured using imperial units:

- · Someone's height in feet and inches
- · The mass of a bag of sugar in ounces
- The mass of a sack of potatoes in pounds
- A person's mass in stones
- · A carton of milk in pints
- The amount of water in a bath in gallons

- 1. To turn stones into pounds, we must multiply by 14.
- 2. To turn pounds into stones, we must divide by 14.
- 3. To turn ounces into pounds, we must divide by 16.
- 4. To turn pounds into ounces, we multiply by 16.
- 5. To turn gallons into pints, we must multiply by 8.
- 6. To turn pints into gallons, we must divide by 8.

	METRIC	IMPERIAL
Length	millimetre, centimetre, metre, kilometre	inch, foot, yard, mile
Mass	milligram, gram, kilogram	ounce, pound, stone
Capacity	millilitre, centilitre, litre	pint, gallon

8 stones	196 pounds	1½ stones
=pounds	=stones	= pounds
48 ounces	3 gallons	48 pints
= pounds	+ pints	= gallons
960 ounces	3½ gallons	3 stones
= pounds	= pints	= pounds
5.5 stones	4.6 gallons	3 stones
= ounces	= pints	= ounces