Year 6 Maths Homework Autumn Part 2

Please refer to the booklet that we sent home: How to learn your Times Table facts which is full of ideas of how to learn them. It is also available on our website.

Know by heart facts for all multiplication tables up to 12 x 12.

Example: 4 x 2 = 8

So   4 x 4 = 16

4 x 8 = 32

Focus on a times table that you struggle on. For example, learn your 4s until you are a master then move on to another times-table.

Remember... If I know my 4s, I can double to find the 8s. If I know my 3s, by doubling I know my 6s. If I know my 6s, by doubling I know my 12s.

Suggestion: Make up as song or rap to help you.

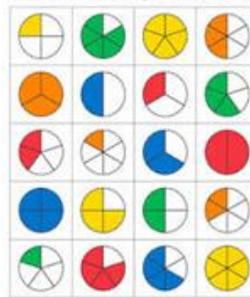## Show your confidence in finding equivalent fractions

Suggestion: Select a fraction using a die, e.g. Rolling a 2 and a 5 = 2/5.

Then try this... Simplify these fractions:
4/16
3/9
16/20
90/100
11/88

For any of the above are you able to convert them into decimals and percentages?

Roll, Slide, & Cover

Solve problems involving the calculation of percentages.

Suggestion: Look through the Argos catalogue or look while you are out shopping - work out how much something might cost if you were given 10% and 15% percentage off.
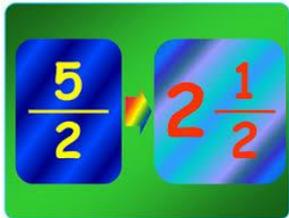
Then try these:
A 320 gram box of Celebrations costs £3.50 in Sainsburys, if I received 15% off I would only pay £2.97.

How much would I pay for a 450g pouch priced £4.00?
How much would I pay for a 680g tub priced £5.00?

Convert between proper and improper fractions.

Change these improper fractions into mixed numbers.
22/4
16/3
17/5
29/9

Now convert from mixed numbers to improper fractions.
1 3/5
4 5/8
9 2/7
3 1/4

Mental Maths

Suggestion:
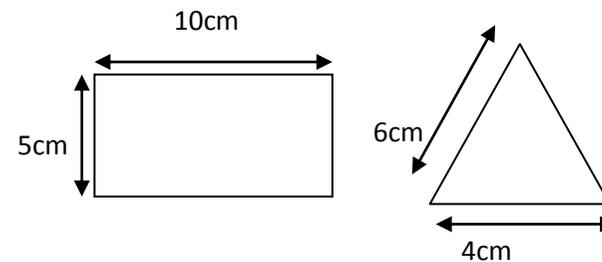Ask someone at home to give you 2 amounts of money less than £5.00 (e.g £3.72 + £2.88).
Write them in your homework book and try using some of our mental methods to add them.

...For a 2 step problem, what change would you have from a £10 note?
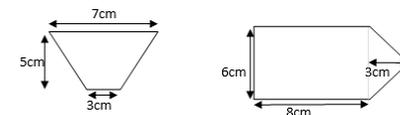
Write down your answers and then check you have it correct using a calculator.

Shape – Area /Perimeter

Calculate the perimeter of the following shapes:

10cm

5cm

6cm

4cm

Calculate the area of the following shapes:

7cm

5cm

3cm

6cm

3cm

8cm

Find different objects around your house and work out the area and the perimeter.

Measurement

Suggestion:
Measure the length of 10 objects in your house. Record your measurements in cm.
Convert to m and mm.

Multiply and divide whole numbers and decimals mentally by 10 or 100,

Example:
2,567 x 10 = 25,670
2567 ÷ 10 = 256.70

Multiplying and Dividing by 10, 100 and 1000

10 000	1000	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

Multiplying		**Dividing**	
X 10	digits move LEFT **1** space	÷ 10	digits move RIGHT **1** space
X 100	digits move LEFT **2** spaces	÷ 100	digits move RIGHT **2** spaces
X 1000	digits move LEFT **3** spaces	÷ 1000	digits move RIGHT **3** spaces

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