

Year 5 Summer Maths Challenge



Time

- 1) Create a timetable for a day of your summer holidays using 12 hour and 24 hour time readings. Can you work out the duration of each part of your day using a timeline (i.e. from 9.30am-9.47am we walk the dog = 17 minutes).
- 2) On a digital 24 hour clock, at certain times, all the digits are consecutive (in counting order). You can count forwards or backwards. For example, 1:23 or 5:43. How many times like this are there between midnight and 7:00? How many are there between 7:00 and midday?



Measure

- 1) Using a tape measure, measure the size of each room in your house. Use this information to find the perimeter and area of each room.
- 2) Choose ten items from your kitchen cupboard. Organise them from heaviest weight to lightest weight. Can you find the difference between the heaviest and lightest weight? Can you find the average weight for the items?
- 3) Liquid ratios: Using food colouring, make a two jugs of coloured water (ie. red water and yellow water). In a separate container, mix the liquids into the following ratios:
 $1 R : 1 Y = 300\text{ml}$, $1 R : 1 Y = 450\text{ml}$, $1 R : 3 Y = 600\text{ml}$. How big will each 'part' be?