


Monday's Puzzle

Put the following **numbers** in, from smallest to largest – discuss in your Tutor Groups and then in your Maths lessons!

	<p>Number of</p> <p>Mars bars with the same total weight as your whole class</p> <p>Steps when walking at a leisurely pace for 1 hour</p> <p>Stitches in a handknitted jumper</p> <p>People at a cup final in a large stadium</p>
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Suggested solutions:

Number of

Steps when walking at a leisurely pace for 1 hour **8000**


Mars bars with the same total weight as your whole class **20000** (for a class of 30 students weighing about 40kg each)

Stitches in a handknitted jumper **75000**

People at a cup final in a large stadium **80000**

Tuesday's Puzzle

Put the following **time periods** in order, from smallest to largest – discuss in your Tutor Groups and then in your Maths lessons!

	<p>Time</p> <p>That a pet rat lives For light to reach us from the nearest star other than the sun Between two football world cups For all of the red blood cells in your body to be replaced....10 times</p>
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Suggested solutions:

Time

That a pet rat lives **2-3 years**


For all of the red blood cells in your body to be replaced....10 times **3 years**

Between two football world cups **4 years**

For light to reach us from the nearest star other than the sun **4.2 years**

Wednesday's Puzzle: Pi Day!

Put the following **speeds** in order, from smallest to largest – discuss in your Tutor Groups and then in your Maths lessons!

	<p>Speed</p> <ul style="list-style-type: none">Of a racehorse running at maximum speedOf the fastest sprinter in the worldOf the fastest cyclist in an Olympic cycle sprint raceOf a bus going past the school
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Suggested solutions:

Speed

Of the fastest sprinter in the world **10m/s**

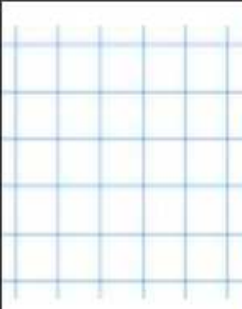
Of a bus going past the school (30mph = **13.4m/s**)

Of a racehorse running at maximum speed **15m/s**

Of the fastest cyclist in an Olympic cycle sprint race **19m/s**

Thursday's Puzzle

Put the following **areas** in order, from smallest to largest – discuss in your Tutor Groups and then in your Maths lessons!

	Area
	Of the sheets of paper in a ream (500 sheets) of A4.
	Of the floor of the classroom
	Covered by 5 litres of paint
	Of fabric needed to make school uniforms for the whole class.

Suggested solutions:

Area

Of the sheets of paper in a ream (500 sheets) of A4. **30m^2**

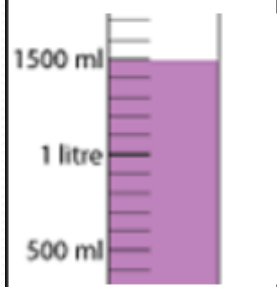
Covered by 5 litres of paint **50m^2**

Of the floor of the classroom **60m^2**

Of fabric needed to make school uniforms for the whole class **will depend on the size of the class, the width of the fabric and the design of the uniform!**

Friday's Puzzle

Put the following **volumes** in order, from smallest to largest – discuss in your Tutor Groups and then in your Maths lessons!

	<p>Volume of water</p> <p>In a half-filled bath Used in a 10 minute shower Used in 5 dishwasher cycles Used to flush the toilet 20 times</p>
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Suggested solutions:

Volume of water

used in a 10 minute shower **90 litres**

used in 5 dishwasher cycles **100 litres**

in a half-filled bath **100 litres**

used to flush the toilet 20 times **120 litres** (modern toilet)