

## October Maths Masters (A)

<p>Have a go at each of the questions for. Can you draw your working out? Can you show it using a written method? Can you talk to someone about how you worked out your answers?</p> <p style="text-align: right; font-size: small;"><a href="http://www.alittlebutalot.com">www.alittlebutalot.com</a></p>		1 What is the value of each of the digits in 160.053?	2 What is 603,598 rounded to the nearest 10, 100 and 000?	3 Which number is larger: 2545 or 2455? Describe how you know.	4 What time is 20:57 in words? Can you draw it on a clock face?	
5 What is $20 \times 23$ ? Can you work it out 3 different ways?	6 What's missing in this sequence: 5, 3, 1, ____, How do you know?	7 What are the properties of a square based pyramid? Can you accurately draw one?	8 What is today's date in Roman Numerals? What was yesterday's date?	9 What is the total of 3506, 509, 63 and 796?	10 Calculate $6 \times 40$ . What related facts can you come up with using this calculation?	11 If $a=1$ , $b=2$ ... $z=26$ . What is the value of your name?
12 What is $650 \div 1000$ ? How did you find the answer?	13 Draw a triangle. Describe the angles using mathematical vocabulary.	14 Put these numbers in ascending order: 5698, 9685, 5986, 6895 and 6598.	15 What is the difference between 16,089 and 3647?	16 If $8a = 40$ . What is the value of $a$ ? What is the value of $10a$ ?	17 List all of the square numbers to 144. Find pairs which add to 100.	18 What are the factors of 60?
19 Five sixths of a number is 60, what was the number? How did you work it out?	20 What is the total of a half, three fifths and a third?	21 How many litres are the same as 4500ml? How do you know?	22 Write these decimals as fractions: 0.5, 0.78, 0.042 and 0.1.	23 Can you draw an angle of $50^\circ$ ? What do you call this kind of angle?	24 Is $4 \times 7$ the same as $2 \times 14$ ? Can you draw it?	25 Jake says, "25 has 4 factors." Do you agree? Why?
26 What is the product of 4, 5 and 10? What is the sum?	27 If $y = 0.3$ , what is the value of $z$ in ' $30y = z$ '?	28 What is the odd number out and why: 25, 64, 39, 100?	29 Which fraction is larger: $\frac{4}{5}$ or $\frac{9}{10}$ ? How do you know?	30 Double the following numbers: 65, 95, 167 and 693.	30 <b>TRICKY QUESTION:</b> How many hours do you spend in school in October?	