

West Berkshire 'Maths Talk' Counts Summer Challenge: Year 6

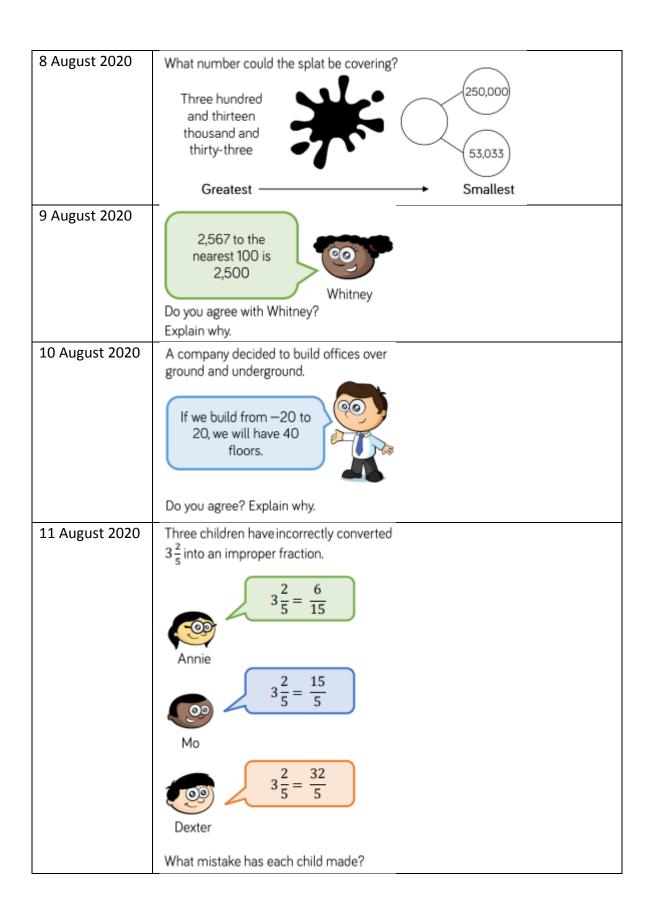
1 August 2020	Match the diagram to the number.
	4,005 4,500 4,050
2 August 2020	Which diagram is the odd one out? 5,000 6,000
3 August 2020	Put a digit in the missing spaces to make
	the statement correct. 4,62,645 < 4,623,64 Is there more than one option? Can you find them all?
4 August 2020	Tommy says he can order the following numbers by only looking at the first three digits.
	12,516 12,832
	12,679
	12,538 12,794
	Is he correct?
	Explain your answer.



5 August 2020	Dora has made five numbers, using the digits 1, 2, 3 and 4
	She has changed each number into a letter.
	Her numbers are
	aabcd acdbc dcaba cdadc bdaab
	Here are three clues to work out her numbers:
	 The first number in her list is the greatest number. The digits in the fourth number total 12 The third number in the list is the smallest number.
6 August 2020	Describe the value of the digit 7 in each of the following numbers. How do you know?
	407,338
	700,491
	25,571
7 August 2020	Use the digit cards and statements to work out my number.
	0335567
	The ten thousands and hundreds have the same digit.
	The hundred thousand digit is double the tens digit.
	It is a six-digit number.
	It is less than six hundred and fifty- five thousand.

Source Credit: White Rose Maths



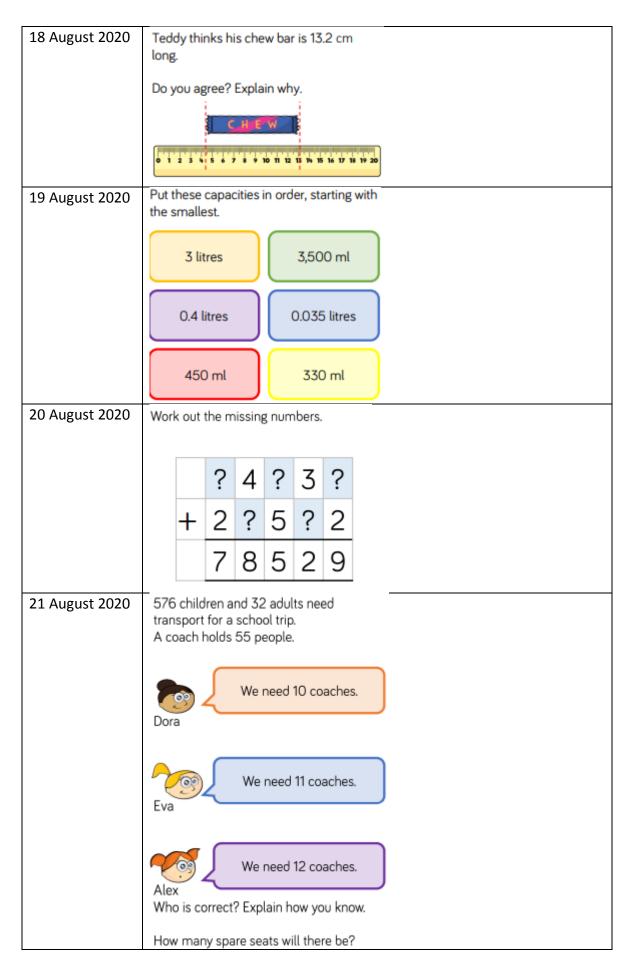




Three children have incorrectly converted $3\frac{2}{5}$ into an improper fraction. Мо Dexter What mistake has each child made? Three children have incorrectly converted $3\frac{2}{5}$ into an improper fraction. Мо Dexter What mistake has each child made? Rosie is counting backwards in fifths. 12 August 2020 She starts at $3\frac{2}{5}$ and counts back nine fifths. What number does Rosie end on? Show this on a number line.

Source Credit: White Rose Maths

	
13 August 2020	Teddy is comparing $\frac{3}{8}$ and $\frac{5}{12}$ To find the lowest common multiple, I will multiply 8 and 12 together. $8 \times 12 = 96$ I will use a common denominator of 96 Is Teddy correct? Explain why.
14 August 2020	Alex is adding fractions.
	$\frac{3}{5} + \frac{1}{15} = \frac{4}{20} = \frac{1}{5}$
	Do you agree with her?
	Explain your answer.
15 August 2020	Fill in the missing numbers.
	$4 \frac{5}{6} + $
16 August 2020	Amir thinks that 18% of the grid has been shaded.
	Dora thinks that 36% of the grid has been shaded.
	Who do you agree with?
	Explain your reasoning.
17 August 2020	Eva says to find 1% of a number, you divide by 100 Whitney says to find 1% of a number, you divide by 10 and then by 10 again.
	Who do you agree with? Explain your answer.





22 August 2020	Alex measures this angle:
	She says it is 130°
	Explain what she has done wrong.
23 August 2020	There are degrees in a right angle.
	There are right angles on a straight line.
	There are degrees on a straight line.
24 August 2020	There are five equal angles around a point.
	What is the size of each angle?
	Explain how you know.
25 August 2020	Amir says,
	My triangle has two 90° angles.
	Can Amir be correct? Can you
26 August 2020	demonstrate this?
20 August 2020	True or False?
	A triangle can never have 3 acute angles.
27 August 2020	If $ = 7 $ and $ = 5 $, what is the value of:
	★ +♥+♥
	If $a = 7$ and $b = 5$ what is the value of:
	a+b+b
	What is the same and what is different about this question?



28 August 2020 29 August 2020	 Hannah is 8 years old Jack is 13 years old Grandma is x + 12 years old. The sum of their ages is 100 Form and solve an equation to work out how old Grandma is. True or false?
	Two rectangles with the same perimeter can have different areas. Explain your answer.
30 August 2020	Calculate the area of the shaded triangle. 24 cm 6 cm Mo says, I got an answer of 72 cm² Do you agree with Mo? If not, can you spot his mistake?
31 August 2020	 For every red cube there are 8 blue cubes. For every 4 blue cubes there is 1 red cube. For every 3 red cubes there would be 12 blue cubes. For every 16 cubes, 4 would be red and 12 would be blue. For every 20 cubes, 4 would be red and 16 would be blue.

Source Credit: White Rose Maths



