Reeth and Gunnerside Schools



Exemplification for maths target sheet 11 - Milky Way

Milky Way Identify pairs of factors for all 2-digit whole numbers								
(Hint: A factor pair is a pair of numbers that give a particular product when multiplied together. For example, $2 \times 5 = 10$, so 2 and 5 are a factor pair of 10. Remember to work systematically starting with 1, identifying the factor pairs.)								
Find the factor pairs for each of the following numbers:								
45	88	70	63	56	91			

Milky Way Know by heart all the squares of numbers up to 12×12 (Hint: $2^2 = 2 \times 2 = 4$) $3^2 =$ $4^2 =$ $5^2 =$ $6^2 =$ $7^2 =$ $8^2 =$ $9^2 =$ $10^2 =$ $11^2 =$ $12^2 =$

Milky Way
Know by heart all the cubes numbers up to
<u>12³</u>
(Hint: $2^3 = 2 \times 2 \times 2 = 8$)
3 ³ =
4 ³ =
5 ³ =
6 ³ =
7 ³ =
83 =
9 ³ =
10 ³ =
11 ³ =
12 ³ =

Milky Way

Recall all prime numbers less than 100

(Hint: a prime number is a whole number greater than 1 that cannot be exactly divided by any whole number other than itself and 1.)

To help, you can rule out the following numbers:

- Even numbers (apart from 2)
- Multiples of 5 (apart from 5)
- Multiples of 3 (apart from 3)
- Multiples of 7 (apart from 7)

Here are the first few prime numbers: 2, 3, 5, 7, ____

Can you work out all the prime numbers up to 100? There are 25 in total.

Milky Way Recall quickly division factor to 12 x 12 and use them multiples of 10 and 100 240 \div 40 = 180 \div 6 = 360 \div 90 = 720 \div 80 = 480 \div 60 = 270 \div 30 =		Milky Way Calculate simple percent (Hint: divide the number first. For example, first) 10% = 12 5% = 6 15% = 18) 25% of 140 = 15% of 160 = 30% of 180 = 25% of 200 = 15% of 400 =	ber by 10 to find 10%		
Milky WayKnow ways to work outmultiple of 7 or 8(Hint: to work out if a nu7, work up in blocks ofwhen testing 238, first g70, 140, 210then ca210, 217, 224, 231, 238multiple of 7.To test for divisibility byof 80 or halve, halve andanswer is a whole numbernumber must be a multipleTest to see if the followinddivisible by 7 or 8:176217295308336	umber is divisible by 70. For example, to in blocks of 70. rry on in 7s Yes, 238 is a 8, work up in blocks I halve again. If the er, then the original ble of 8.) g numbers are	for multiples of 2, 3, 4 (Hint: a number is divisible by A number is divisible 2 and 3. A number is divisible digits is divisible by 9 A number is divisible two digits in the same one's digit - is divisible Work out if any of the divisible by 2, 3, 4, 5,	Know by heart and use the tests of divisibility for multiples of 2, 3, 4, 5, 6, 9 and 10 (Hint: a number is divisible by 3 if the sum of its digits is divisible by 3. A number is divisible 6 if it is divisible by both		