

1. Find pairs of prime numbers which add up to a square number.	2. Can you work out the first six cube numbers?
 3. I have £5.60 in my pocket. I pay for three ice lollies at 45p each and lose a 20p coin on the way home. What is the smallest number of coins I could have in my pocket when I reach home? 	4. My bus fare to town is £1.80. If prices go up by 15%, what will my new bus fare be?
5. Evaluate $\frac{1}{3} + \frac{1}{2}$.	6. Can you share 2016 sweets equally between nine children?
7. Write down six numbers which have a mean of 6, a median of 6, and a mode of 6, but are not all 6.	8. Write down the multiples of 6 that are factors of 480.
9. 10! = 10x9x8x7x6x5x4x3x2x1 What is its last non zero digit?	10. How would you explain in words, without using a diagram, what is meant by a square, and what is meant by a circle?



1. Find pairs of prime numbers which add up to a square number.	2. Can you work out the first six cube numbers?
There are numerous answers such as 5 + 11 = 16 or 23 + 41 = 64	1, 8, 27, 64, 125
 3. I have £5.60 in my pocket. I pay for three ice lollies at 45p each and lose a 20p coin on the way home. What is the smallest number of coins I could have in my pocket when I reach home? Three. Two £2 coins and one 5 pence piece. 	4. My bus fare to town is £1.80. If prices go up by 15%, what will my new bus fare be? £2.07
5. Evaluate $\frac{1}{3} + \frac{1}{2}$. $\frac{5}{6}$	 6. Can you share 2016 sweets equally between nine children? Yes! Each child receives 224 sweets.
 7. Write down six numbers which have a mean of 6, a median of 6, and a mode of 6, but are not all 6. There are numerous answers such as 5, 5, 6, 6, 7, 7 or 4, 5, 6, 6, 7, 8. 	 8. Write down the multiples of 6 that are factors of 480. 6, 12, 24, 30, 48, 60, 96, 120, 240, 480.
9. 10! = 10x9x8x7x6x5x4x3x2x1 What is its last non zero digit? 8	 10. How would you explain in words, without using a diagram, what is meant by a square, and what is meant by a circle? Many ways! Try them out with your friends!