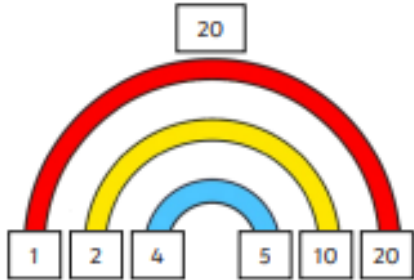
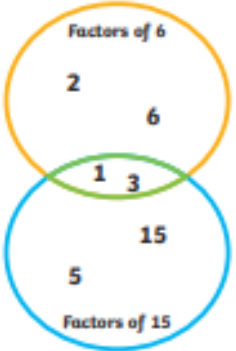
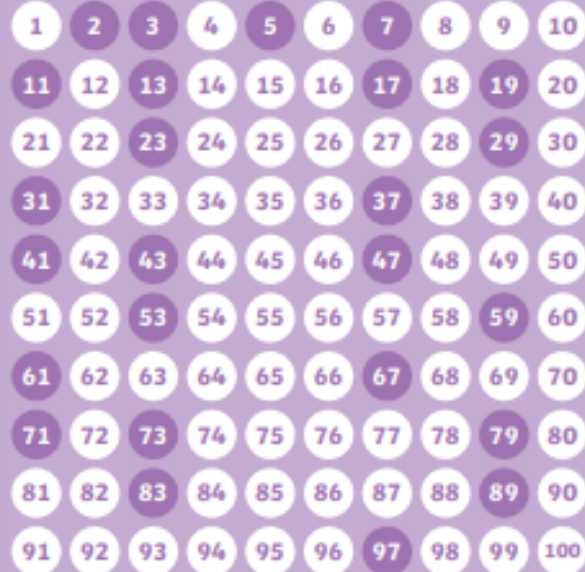
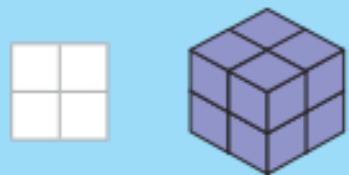
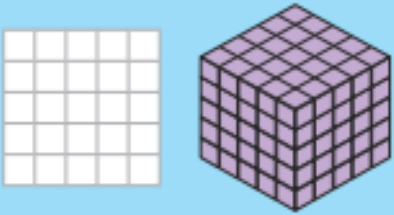



Year 5 Maths: Multiplication and Division (1)

Key Vocabulary	Factors	Prime Numbers	
multiply	<p>A factor is a number that divides into another number exactly, without leaving a remainder.</p>  <p>The factors of 20 are 1, 2, 4, 5, 10 and 20.</p> <p>The factor pairs are: 1 and 20 2 and 10 4 and 5</p> <p>A common factor is a factor of 2 or more numbers.</p> 		
groups of			
lots of			
times			
divide			
share			
remainder			
factor		Squared ² and Cubed ³ Numbers	Related Calculations
multiple		 <p>$2^2 = 4$ $2 \times 2 = 4$</p> <p>$2^3 = 8$ $2 \times 2 \times 2 = 8$</p>	<p>$8 \times 9 = 72$ $9 \times 8 = 72$</p> <p>$80 \times 9 = 720$ $90 \times 8 = 720$</p>
product		 <p>$5^2 = 25$ $5 \times 5 = 25$</p> <p>$5^3 = 125$ $5 \times 5 \times 5 = 125$</p>	<p>$72 \div 9 = 8$ $72 \div 8 = 9$</p> <p>$720 \div 9 = 80$ $720 \div 8 = 90$</p>
			

Year 5 Maths: Multiplication and Division (2)

Short Multiplication

$$2543 \times 7 = 17801$$

	2	5	4	3
x				7
1	7	8	0	1
1	3	3	2	

Remember to move any regrouped digits into the next column. After the next multiplication, add the regrouped number to the answer.

Long Multiplication

$$2543 \times 67 = 170381$$

		2	5	4	3		
	x			6	7		
		1	7	8	0	1	
		1	5	2	5	8	0
		1	1	1	1		
		1	7	0	3	8	1
		1	1				

Before multiplying by the number in the tens column, remember to use zero as a placeholder because the 6 in 67 is 6 tens (60).

Division

$$136 \div 4 = 34$$

		3	4	
4		1	3	6
-		1	2	0
			1	6
		-	1	6
				0

→ 30×4

→ 4×4

Short Division

		3	8	
4		1	5	2

$$15 \div 4 = 3 \text{ remainder } 3$$

Remember to regroup any remainders and move them into the next column.

		4	5	5	r	3
5		2	2	² 7	² 8	

$$28 \div 5 = 5 \text{ remainder } 3$$

If your calculation has a remainder, remember to record it in the answer using the letter **r**.