Maths	Geom	etry, Number & Probability		r 7	Term 6			
Week 1: Geometry		Week 2: Sets & Probability (1)		Week 3: Sets & Probability (2)				
	Angles around a point sum to 360°.	Venn diagram A way to o categories	ganise multiple "A in of information.	intersect B" Inters	ection of Set A and Set B. ne symbol for intersection.			
	Adjacent angles on a straight-line sum to 180°. Vertically opposite angles are	universal setA set that of A B ξ is the synset. ξ	ontains ALL elements. nbol for universal "A u	union B" Eleme	eg. $A \cap B$ is shaded. Elements in Set A, Set B or both . U is the symbol for union. eg. $A \cup B$ is shaded.			
	equal. Interior angles in a triangle sum	elementsIndividual gup a set.subsetA smaller g	arts/items that make roup of elements from	eg. A				
82° 56° 42°	to 180°. eg. 56 + 82 + 42 = 180	the univers { } Curly brack elements in	al set. ets are used to show a given set.	Bernet A" Element A" Element A" Element A"	ents that are <u>not</u> in Set A. e symbol for complement			
80 ⁰ 94 ⁰ 68 ⁰ 118 ⁹	Angles in a quadrilateral sum to is 360° . <i>eg. 68 + 118 + 94 + 80 = 360</i>	eg. Even nu All element (including t in Set B) Elements t but not in S	mbers {2, 4, 6, 8} s in Set A. hose that also appear nat appear in Set A, et B.	eg. A	is shaded.			
$ \begin{array}{c} $	B = 12 7 x 3 = 21 10 x 3 = 30 B = 15 8 x 3 = 24 11 x 3 = 33 B = 18 9 x 3 = 27 12 x 3 = 36	$ \begin{array}{c} \$ & 1 \times 5 = 5 & 4 \times 5 = 20 & 7 \\ \$ & 2 \times 5 = 10 & 5 \times 5 = 25 & 8 \\ \$ & 3 \times 5 = 15 & 6 \times 5 = 30 & 9 \\ \$ & 3 \times 5 = 15 & 6 \times 5 & 10 \\ \$ & 3 \times 5 = 15 & 6 \times 5 & 10 \\ \$ & 3 \times 5 & 10 & 10 \\ \$ & 5 \times 5 & 10 & 10 \\ \$ & 5 \times 5 & 10 & 10 \\ \$ & 5 \times 5 & 10 & 10 \\ \$ & 5 \times 5 & 10 & 10 \\ \$ & 5 \times 5 & 10 & 10 \\ \$ & 5 \times 5 & 10 & 10 \\ \$ & 5 \times 5 & 10 & 10 \\ \$ & 5 \times 5 & 10 \\ $	x 5 = 35 10 x 5 = 50 x 5 = 40 11 x 5 = 55 x 5 = 45 12 x 5 = 60	$1 \times 6 = 6$ $4 \times 6 = 24$ $2 \times 6 = 12$ $5 \times 6 = 30$ $3 \times 6 = 18$ $6 \times 6 = 36$	$7 \times 6 = 42$ $10 \times 6 = 60$ $8 \times 6 = 48$ $11 \times 6 = 66$ $9 \times 6 = 54$ $12 \times 6 = 72$			
Extension work – Codes for related Independent Learning tasks on Sparx Maths Click on 'Independent Learning' on home page then enter code in search box								
Sparx Maths M1 M3	 Angles on a line & a point Vertically opposite angles Angles in triangles 	Sparx Maths M829 Venr M834 Venr notar	diagrams diagrams with set ion	M419 P barx Maths di	robability from Venn iagrams			

Maths		Geometry, Number	& Probability	Year 7	Term 6		
Week 4: Sets & Probability (3)		Week 5: Num	Week 5: Number sense		Week 6: Core knowledge recap		
probability	The chance that a given outcome occur.	will estimate	Using approximate values in a calculation to give a predicted	square numbers	The product when you multiply a number by itself.		
impossible	An outcome that has zero chance	of	answer rather than an exact		eg. 8 ² = 8 x 8 = 64		
	occurring. eg. A six-sided dice will land on a	n 8. effecient	answer. Working in a well-organised and competent way.		1 ² 2 ² 3 ² 4 ² 5 ²		
certain	An outcome that is sure to happed (definite).	n product	The result of a multiplication 10 x 2 = 20				
			Product	cube	The product when you multiply a number by itself three times		
Impossible	Unlikely Even Chance Likely C	quotient	The result of a division		eg. $6^3 = 6 \times 6 \times 6 = 216$		
	¥ •		10 ÷ 2 = 5 Quotient		1 ³ 2 ³ 3 ³ 4 ³ 5 ³		
1-in-6	Chance 4-in-5 Chance	sum	The result of an addition 10 + 2 = 12				
bias	To show favour towards one thir another.	g over	Sum	triangular	1 8 27 64 125 A number (of dots) that that can be		
sum of probabilities	The sum of probabilities for all outcomes = 1.	difference	The result of a subtraction 10 – 2 = 8	numbers	made into an equilateral triangle.		
	Blue Green Red		Difference				
	0.5 0.3 <i>x</i>	factor	Factors are the numbers you	nrimo	1 3 6 10 15 A number that has exactly two factors –		
	$0.5 + 0.3 + x = 1 \rightarrow x = 0.2$	a×b_	multiply to create a product (always integers – <i>whole numbers</i>).	number	it is only divisible only by itself and 1.		
<u>s</u> 1 x 8 = 8	4 x 8 = 32 7 x 8 = 56 10 x	= 80	4 x 11 = 44 7 x 11 = 77 10 x 11 = 110	<mark>ਤ</mark> ੋਂ 1 x 12 = 1	12 4 x 12 = 48 7 x 12 = 84 10 x 12 = 120		
្រ្ទ 2 x 8 = 16	5 x 8 = 40 8 x 8 = 64 11 x	= 88	5 x 11 = 55 8 x 11 = 88 11 x 11 = 121	ຍີ 2 x 12 = 2	24 5 x 12 = 60 8 x 12 = 96 11 x 12 = 132		
[⊑] _∞ 3 x 8 = 24	6 x 8 = 48 9 x 8 = 72 12 x	= 96	6 x 11 = 66 9 x 11 = 99 12 x 11 = 132	ម្មី 3 x 12 = 3	36 6 x 12 = 72 9 x 12 = 108 12 x 12 = 144		
Extension work – Codes for related Independent Learning tasks on Sparx Maths Click on 'Independent Learning' on home page then enter code in search box							
Sparx Maths	M655 Using probability phra M938 Writing probabilities	Ses Sparx Maths	M878 Estimating calculations M823 Finding factors and using	Sparx Maths	M135 Calculating with powers and roots		
	M755 Mutually exclusive ev	ents	divisibility tests		M322 Finding prime numbers		