Year 10 Foundation Unit 1 KO – Types of Data, Sampling, Averages, Perimeter and Area, 3D Forms and Volume

Types of Data							
1	Population		The group of individuals from which the data				
			has been obtained	J.			
2	Sample		A selection of indi	viduals taken from the			
			population.				
3	Biased sample		A sample that doe	esn't represent the whole			
			population.				
4	Data		A collection of fac	ts.			
5	Primary Data		Data that has bee	n collected from the original			
			source.				
6	Secondary Data		Data obtained from another source.				
7	Quantitative	Quantitative		Information that can be counted or measured.			
8	Qualitative		Information that describes something in words.				
9	Discrete data	Discrete data		Data that can only take certain values.			
10	Continuous dat	ta	Data that can take any value within a unit of				
			measurement.				
11	Grouped data		Data that is comb	ined within a range of values.			
Ave	rages and Range						
1	N.4	T I					
T	iviean	The tota	I value of a set of n	umbers divided by the			
T	Mean	The tota number	l value of a set of n of values or total fr	umbers divided by the equency.			
2	Median	The tota number The mide	l value of a set of n of values or total fr dle value of set of n	umbers divided by the equency. umbers after they are put in			
2	Median	The tota number The mide ascendir	l value of a set of n of values or total fr dle value of set of n ng order.	umbers divided by the equency. umbers after they are put in			
2	Median Mode	The tota number The mide ascendir The mos	l value of a set of n of values or total fr dle value of set of n ng order. t common/frequen	umbers divided by the equency. umbers after they are put in t value from a set of data.			
1 2 3 4	Median Mode Range	The tota number The mide ascendir The mos Largest V	l value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest val	umbers divided by the equency. umbers after they are put in t value from a set of data. ue.			
1 2 3 4 5	Median Median Mode Range Frequency	The tota number The mide ascendir The mos Largest v The num	l value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ber of times somet	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. hing happens.			
1 2 3 4 5 6	Median Median Mode Range Frequency Tally Chart	The tota number The mide ascendir The mos Largest v The num Table tha	l value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ber of times somet at records frequence	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. hing happens. cy with each mark			
1 2 3 4 5 6	Median Mode Range Frequency Tally Chart	The tota number The mide ascendin The mos Largest v The num Table tha represer	I value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ber of times somet at records frequence nting .	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. hing happens. cy with each mark			
1 2 3 4 5 6 7	Median Median Mode Range Frequency Tally Chart Frequency	The tota number The mide ascendir The mos Largest v The num Table tha represer A table t	I value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ber of times somet at records frequence nting . hat lists a set of dis	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. hing happens. ty with each mark crete variables and their			
1 2 3 4 5 6 7	Median Median Mode Range Frequency Tally Chart Frequency Table	The tota number The mide ascendir The mos Largest v The num Table tha represer A table t frequence	I value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu aber of times somet at records frequence nting . hat lists a set of dis cy.	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. thing happens. ty with each mark crete variables and their			
1 2 3 4 5 6 7 8	Median Median Mode Range Frequency Tally Chart Frequency Table Stem and leaf	The tota number The mide ascendin The mos Largest v The num Table tha represen A table t frequence A plot w	I value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ber of times somet at records frequence nting . hat lists a set of dis cy. here each data valu	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. thing happens. ty with each mark crete variables and their ue is split into a "leaf" (the last			
1 2 3 4 5 6 7 8	Median Median Mode Range Frequency Tally Chart Frequency Table Stem and leaf	The tota number The mide ascendin The mos Largest v The num Table tha represen A table t frequence A plot w digit) and	l value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ber of times somet at records frequence nting . hat lists a set of dis cy. here each data valu d a "stem" (the oth	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. hing happens. vy with each mark crete variables and their er is split into a "leaf" (the last er digits).			
1 2 3 4 5 6 7 7 8 8	Median Median Mode Range Frequency Tally Chart Frequency Table Stem and leaf	The tota number The mide ascendir The mos Largest v The num Table tha represer A table t frequence A plot w digit) and	I value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ober of times somet at records frequence nting . hat lists a set of dis cy. here each data valu d a "stem" (the oth	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. thing happens. crete variables and their crete variables and their e is split into a "leaf" (the last er digits).			
1 2 3 4 5 6 7 7 8 Met 1	Median Median Mode Range Frequency Tally Chart Frequency Table Stem and leaf Stem and leaf Metric	The tota number The mide ascendin The mos Largest v The num Table tha represer A table t frequence A plot w digit) and	I value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ber of times somet at records frequence nting . hat lists a set of dis cy. here each data valu d a "stem" (the oth	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. thing happens. ty with each mark crete variables and their te is split into a "leaf" (the last er digits).			
1 2 3 4 5 6 7 8 8 Met 1	Median Median Mode Range Frequency Tally Chart Frequency Table Stem and leaf Stem and leaf Metric measures -	The tota number The mide ascendin The mos Largest v The num Table tha represen A table t frequence A plot w digit) and millimetres centimetre	I value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ber of times somet at records frequence nting . hat lists a set of dis cy. here each data valu d a "stem" (the oth	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. thing happens. ty with each mark crete variables and their te is split into a "leaf" (the last er digits). mm cm			
1 2 3 4 5 6 7 7 8 8 Met 1	Median Median Mode Range Frequency Tally Chart Frequency Table Stem and leaf Stem and leaf Metric measures - length	The tota number The mide ascendir The mos Largest v The num Table tha represer A table t frequence A plot w digit) and millimetres	I value of a set of n of values or total fr dle value of set of n ng order. t common/frequen value – smallest valu ober of times somet at records frequence nting . hat lists a set of dis cy. here each data valu d a "stem" (the oth s	umbers divided by the equency. umbers after they are put in t value from a set of data. ue. thing happens. ty with each mark crete variables and their te is split into a "leaf" (the last er digits). mm cm m			



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4	Perpendicular height	The	The height that meets the base of a shape at 90°.		
5	Area of a Triangle	$\frac{b \times h}{2}$			
6	Area of a square/ rectangle	$b \times h$		Base x perpendicular height	
7	Area of a parallelogram	$b \times h$		Base x perpendicular height	
8	Area of a trapezium	$\frac{1}{2}(a+b)h$		Where a and b are the two parallel sides	
9	Surface Area	The	The total area of all faces of a 3D shape.		
3D :	Shapes				
1	Prism		A solid object with identical faces at each end. The cross-section is the same all along its length.		
2	Three-dimensio (3-D) shape	nal	A shape with three dimensions, width, height and		
3	Cube		A 3D shape with 6 identical square faces.		
4	Cuboid		A prism with 6 sides, all the faces are rectangles.		
5	Cylinder		A prism where the cross section is a circle.		
6	Pyramid		A 3D shape with sloping sides that meet in a point at the top.		

	0,			
7	Sphere	A round 3D shape with every point at equal distance		
		fror	n the centre.	
8	Cone	A 31	D object that has a circular base joined to a point	
		by a	a curved face.	
Pro	perties of 3D Shapes			
1	Face	Any flat surface of a 3D shape.		
2	Edge	Where two faces meet.		
3	Vertex	A point where two or more edges meet.		
4	Net A Pattern of 2D shapes you can fold to make a 3D			
		shape.		
Volu	ume			
1	Volume		The amount of space inside a shape.	
2	Volume of a prism		area of the cross section x length	
3	Volume of a cuboid		base x width x length	
4	Volume of a cylinder		$\pi r^2 x$ length	