Al Wataniya International School

PO Box 22698 Doha, Qatar T: (+974) 4017-4930

info@awisdoha.com www.awisdoha.com



المدرسة الوطنية الدولية

صندوق برید 22698 الدوحة - قطر هاتف 40174930 info@awisdoha.com www.awisdoha.com

Power Maths Key Vocabulary Year 5 – Block A

Key Vocabulary	Explanation of Terms Example Question(s)				
place value	A number can have many digits and	In the number 17.5, what is the value			
	each digit has a special place and	of the 7?			
	value. Starting from the right the first	(7 ones)			
	digit will be at ones place and the	Write the numbers below in words:			
	second digit at tens place.				
		222,070			
	1/10 (tenths)	102.076			
	Ones Decimal Point 1/100 (hundredths) Tens 1/1000 (thousandths) 1/1000 (thousandths)	832 001			
	17 501	986 230			
	10x Bigger	580,230			
	10x Smaller	Compare the numbers below using <			
		or >			
		< or >			
		12,451 12,541			
		45,007 43,091			
		123,432 121,445			
partition	Partitioning is used to make	How can the number 1,227 be			
	solving maths problems involving	partitioned? (1,000, 200, 20 & 7)			
	large numbers easier by separating				
	them into smaller units. By using	How can the number 30,392 be			
	partitioning, it helps students to	partitioned? (30,000, 300, 90, 2)			
	understand the values of each digit.	Partition the numbers below:			
	When asked to calculate EEZ + 100:	345,986			
		860,201			
	Partitioning method	352,844			
	$500 \pm 100 = 600$	492,110			
	60 + 90 = 150	800,003			
	7+9 = 16				
	600 + 150 + 16 = (766)				
octimata	To estimate is to find a value that is	Estimate 121 x 11			
estimate	close enough to the right answer	To estimate this in your head you can			
	usually with some thought or	think of $120 \times 10 = 1200$.			
	calculation involved.	(Your accurate answer is going to be			
		close to 1200.)			

	Estimates can also be used to check	Estimate the sum by rounding each				
	how sensible our answers are to	number to the nearest hundred.				
	questions.	1) Tom and Sam both collect				
		marbles. Tom has collected				
		3.125 and Sam has collected				
		5.611 marbles. How many				
		marbles do they own				
		together? (8,700)				
		2) Tim grew 9.219 watermelons				
		and Mike grew 5.856				
		watermelons this year. How				
		many watermelons did they				
		grow together? (15,100)				
		3) There are 5 359 crayons in				
		the stockroom Benny placed				
		2 198 more crayons in the				
		stockroom. How many				
		cravons are now in the				
		stockroom? (7 900)				
rounding	Rounding means to make a number	W/bat is 89 rounded to the nearest				
Tourianis	simpler but keeping it close to what it	102 (90)				
	was The result is less accurate but	10: (30)				
	easier to use in calculations.	What is 1 234 rounded to the nearest				
		10? (1 230)				
	Example: 73 rounded to nearest 10 is					
	70 as it is closer to 70 than 80.	What is 5.671 rounded to the nearest				
		100? (5.700)				
order	The arrangement of things in relation	Put the following numbers in order				
	to each other according to a	from smallest to largest:				
	particular sequence or pattern.	1.9, 1.09, 19, 0.19, 1,				
		(0.19, 1, 1.09, 1.9, 19)				
		(0.20, _, _, _, _, _, _, _, _, _, _,				
		Put the following numbers in order				
		from largest to smallest.				
		ווטווומוצבט נט אוומוובטנ.				
	aidea	/2,/2/, 2/,/2/, 2/,2//, //,22/,				
	sides					
		(2/,2/1, 2/,/2/, 72,2/2, 72,72/,				
	Above, the shapes are in order of	//,22/)				
	how many sides they have.					
greater than (>)	These symbols can be used to tell us					
	that a number is "greater than" or	Alex says,				
less than (<)	'less than' another					
	number.	3.105 is greater than 3.2				
	< less	because 105 is greater				
		than 2				
	When one value is smaller than					
	another we use a "less than" sign (<).	Do you agree?				
		Explain your answer.				
	Example: 3 < 5					

	When one value is bigger than another we use a "greater than" sign (>). Example: 9 > 6.	Use $<$, $>$ or $=$ to make the statements correct.
add	To bring two or more numbers (or things) together to make a combined total. ••••••••••••••••••••••••••••••••••••	Jake has £201 and Paula has £377, how much money do they have in total? (£201 + £377 = £578) A large Victorian house was built with 35,901 bricks. A small Victorian house was built using only 7,529 bricks. How many bricks would it take to build a small Victorian house and a large Victorian house? (35,901 + 7,529 = 43,430) Amir goes shopping and buys a pair of trainers for £374.65 and a t-shirt that costs £540.22. How much does he spend altogether? His friend Michael joins him on his shopping spree. He buys a pair of jeans for £792.45 and a coat, which costs £961.11. How much do Michael and Amir spend in total? (£914.87, £2,668.43)
subtract	To take one number away from another. 16 - 7 = 9	If we have 1000 sweets in a jar and we subtract 883 sweets – how many do I have now? (1000 – 883 = 117) Potatoes are sold in bags weighing 2.7kg. Sam uses 1.15kg of potatoes for the Sunday dinner. What is the weight of the remaining potatoes? (2.7 – 1.15 = 1.55kg) A ribbon is 7.50m long. A piece 3.65m
		in length is used, and then a second piece 2.23m is used. How much ribbon is left? (1.62m)

inverse	The inverse refers to the opposite of another operation. The inverse of adding is subtracting. The inverse of multiplying is dividing.			I am thinking of a number, I add 6,53 and then subtract 1,697. I now have 13,574. What is my number? (8,733) The two corner numbers need to be added to equal the number in the rectangle. Complete the diagram below: 3217 6831 4289				add 6,538 ow have ? ed to be in the gram
table	A table is used to arrange information							
row	in rows and columns	5.			Yellow	Red	Blue	TOTAL
1000	Rows go across the page and columns			Square	5	3	2	X
column	go up and down.			Circle		2	2	8
	Sport	People		TOTAL	y 10	9		30
	Soccer	106			10	5		50
	Tennis	s 45		Fill in the missing values in this 2 way				
	Swimming	54 82		table.				
	Track	ck 68			the tota	Inum	nber o	fblue
				triar	ngles.			
two way table	A two way table is a table that			This table shows the height a rocket				a rocket
	displays more than 1 variable.			Create a	line gra	oh to	repre	sent the
	Like Do Not Like Skatehoards Skatehoards		informa	tion.	_			
	Like Snowmobiles 80	25 105		Time	(seconds)	ł	Height	(metres)
	Do not like Snowmobiles 45	10 55	1		10	+		8
	Totals 125	35 160	J		20		,	15
					30		2	25
					40	-	3	57
					60	-	7	20
nrime numbor	A prime number is a	whole number	-	List all o	f the nrin	ne nu	Imhor	s hetween
	greater than 1 that cannot be made			10 and 2	20. (11 <i>,</i> 1	3, 17,	. 19)	S SCIWCEII

composite number	by multiplying other whole numbers. Prime: 2 3 5 7 etc Composite: 4 6 8 9 A number that is not prime, is a composite number.	Michael says, All prime numbers are odd.' Do you agree? Explain your thinking. Max shades the prime numbers on part of a hundred square. I 2 3 4 5 6 7 8 9 10 II 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 24 30 He has missed 2 prime numbers. Shade the prime numbers Max has missed. Sort the numbers correctly to show whether they are prime or composite numbers. 3, 6, 7, 9, 13, 15, 18, 27, 33, 41, 61, 81 Prime Composite
square number cube number	A square number is the number we get after multiplying an integer by itself. Example: 4 x 4 = 16 16 is a square number A cube number is the number we get after multiplying an integer by itself twice. Example: 4 x 4 x 4 = 64 64 is a cube number.	Write one number less than 50 in each box. Multiple of 6 Not a multiple of 6 Square number Not a square number Write each number in its correct place on the diagram. 6 15 27 64 even not even not even not even
perimeter	The perimeter is the distance around a two dimensional (2D) shape. This can be calculated by adding all the sides of a shape together.	Which shapes have the same perimeter? (shapes B & C) 2 cm $3 cm$ $4 cm2 cm$ $3 cm$ $3 cm$ $1 cm$

	The perimeter of this shape is 3 + 7 + 3 + 7 = 20.	Sally says, The two rectangles have the same area, so they must have the same perimeter. 2 cm 9 cm 3 cm 6 cm The perimeter of the shape is 60 m. 13 m 15 m 15 m
		Find the length of the missing side.
distance	The distance is a length or measurement of a specific path.	Michael walked 6km every day for 2 weeks. What is his total distance travelled? (84km) The distance from the library to the shop is 130km, If Michael has walked half of the distance how far has he walked? (65km)
area	The area is the size of a surface or the amount of space inside the boundary of a 2-dimensional object such as a triangle or a square. 1 cm fm fm	Estimate, in squares, the area of the shape.
	to squares of a fixed size. The standard unit of area is the square metre (written as m2), which is the area of a square whose sides are one metre long.	

