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المدرسة الوطنية الدولية

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Power Maths Key Vocabulary Year 5 – Block B

Key Vocabulary	Explanation of Terms	Example Question(s)
multiply	To multiply means to add equal	Alisha went on a shopping spree
	groups. When we multiply, the number	and bought 12 pairs of shoes. Each
	of things in the group increases.	pair cost £15. How much did she
		spend? (12 x 15 = 180)
	The basic idea of multiplying is	
	repeated addition:	Michael needs 900 eggs for a
	E multiplied by 2 is the same as $E + E +$	wedding. He buys 120 boxes of 6,
	5 indicipiled by 5 is the same as $5 + 5 + 5$	will this be enough?
	5.	(6 x 120 = 720 – No)
	& & & & & & 	Haiden plays 6 Xbox games. He
		scores 3.2 points in each game. How
		many points does he score
		altogether?
		(6 x 3.2 = 19.2)
		Mel buys a new phone, which costs
	(AAAAAA)	her £623. She also takes out phone
	6+6+6+6=30	insurance which costs 12.99 a
	5 groups of $6 = 30$	month. In one years time how much
	5 × 6 = 30	will she have spent altogether on
		ner phone?
		(12.99 X 12 = 155.88, 155.88 + 623 = f778 88)
divide	To divide is to separate or be separated	There are 900 chocolates, if I share
	into equal parts.	these equally between 30 people,
		how many will each person get?
	Division is the act or process	(30)
	of dividing anything.	
	8 ÷ 2 = 4	Clare walked 427km in 7 days, if she
	8 divided into 2 groups gives a result of 4 per group	walks the same distance every day
		(61km)
		Three pens cost the same as five
		pencils. One pen costs £1.15. How
		much does one pencil cost? Give
		your answer in pounds. (£0.69)
decimal	A decimal number can be defined as	32.4 × ? = 324 (10)
	a number whose whole number part	1.562 × 1,000 = ? (1,562)

decimal place	and the fractional part is separated by a decimal point.	? × 100 = 208 (2.08) 4.3 × ? = 86 (20)
	The dot in a decimal number is called a decimal point. The digits following the decimal point show a value smaller than one. $45.6 = 40 + 5 + \frac{6}{10}$ Decimal Number $40 + 5 + \frac{6}{10}$	Colin lived in Scotland and was going to take his caravan on holiday to France. On the first day he travelled 472.87 miles to Portsmouth. He got a ferry which travelled 73.92 miles. He then got off the ferry and drove 134.56 miles to the camp site. How far did Colin travel to the camp site? (681.35 miles)
		He drove a scenic way home which added another 93.45miles to his journey. How far did he now travel? (774.8 miles)
add	To add is 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 subtract is to take one number away from another.	If we have 1,000 sweets in a jar and we eat 883 sweets, how many sweets do we have left? (1,000 – 883 = 117)
	16 — 7 = 9	Potatoes are sold in bags weighing 2.7kg. Sam uses 1.15kg of potatoes

place value	A number can have many digits and each digit has a special place and value. Starting from the right the first digit will be at ones place and the second digit at tens place.	for the Sunday dinner. What is the weight of the remaining potatoes? (2.7 - 1.15 = 1.55 kg) 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) In the number 17.5, what is the value of the 7? (7 ones) Write the numbers below in words: 324,876 222,801 103,076 832,001 986,230 Compare the numbers below using < or >. iz,451 iz,451 iz,451 iz,432 iz,445
partition	Partitioning is used to make solving maths problems involving large numbers easier by separating them into smaller units. By using partitioning, it helps students to understand the values of each digit. When asked to calculate 567 + 199: Partitioning method 500 + 100 = 600 60 + 90 = 150 7 + 9 = 16 600 + 150 + 16 = 766	How can the number 1,227 be partitioned? (1,000, 200, 20 & 7) How can the number 30,392 be partitioned? (30,000, 300, 90, 2) Partition the numbers below: 345,986 860,201 352,844 492,110 800,003

factor	Factors are numbers we can multiply together to get another number.	What are all the factors of 12? (1 x 12 = 12, 2 x 6 = 12, 3 x 4 = 12
	2 × 3 = 6	1, 12, 2, 6, 3 & 4.)
	Factor Factor	Which numbers less than 100 have exactly three factors? (4, 9 and 25)
	2 x 3 = 6, therefore 2 and 3 are factors of 6.	What number up to 100 has the most factors? (60, 72, 84, 90 and 96. They each have a total of 12 factors)
multiple	A multiple is the product result of one number multiplied by another number.	List the multiples of 8 between 0 and 50.
	multiple of 4	(8, 16, 24, 32, 40, 48)
	5 x 4 = 20	How do you know a number is a multiple of 5?
	factor factor multiple of 5	(the last digit is either 5 or 0)
	Every number has an infinite number	How do you know a number is a
	of multiples.	(the digital root is 9)
remainder	A remainder is the amount left over after performing a division calculation.	Find the remainder when sixty-nine is divided by five? (4)
	This happens when the number does	Dara bought 22 cakes for his
	$19 \div 5 = 3 R 4$	birthday. He carefully put five cakes on each of six plates. How many cakes were left over? (2)
	Remainder	In an office, there are 8 desks. A
		pack of 35 sets of sticky notes need sharing equally among the desks. How many sets of sticky notes are on each desk? (4 r 3)
		There are seventeen boys and fourteen girls in a class. The children sit at tables of 4. How many tables are needed? (8)
sum	The sum is the result of adding two or more numbers together.	What is the sum of 4340 and 481? (4,340 + 2,481 = 6,821)
	21 + 52 = 73 sum	Find the sum:

		56833
		+ 44105 (100,938)
		84658 + <u>85858</u>
		(170,516)
		What is the sum of 176, 87 and 39? (302)
fraction	A fraction is a part of a whole number, and a way to split up a number into	Noah made two types of biscuits. He used 3/8 cup of sugar for one recipe
numerator	equal parts.	and 1/8 cup of sugar for the other. How much sugar (in cups) did he use
denominator	$3 \leftarrow$ Numerator	in all? (4/8)
	4 ~ Denominator	Harry and Dele shared a chocolate bar. Harry ate 2/5 and Dele ate
	The numerator is the top number of a fraction.	3/10. Who ate more? What fraction more? (Harry 1/10)
	The denominator is the bottom number of a fraction.	A jug contains 2 3/4 litres of orange juice. After you pour 1 7/8 litres into some glasses, how much is left in the jug? (7/8)
equivalent	Equivalent signifies that 2 things are equal.	1
	$\frac{1}{2} = \frac{2}{4}$	5 10 (2) 3 =
	You can make equivalent fractions by	20 40 ₍₆₎
	multiplying or dividing both top and bottom by the same amount. You only multiply or divide, never add or subtract, to get an equivalent fraction.	$\frac{3}{3} = \frac{8}{24}$ (1)
	Only divide when the top and bottom stay as whole numbers.	Write 3 equivalent fractions to each of these fractions: $\frac{1}{3}$ (2/3, 4.6, 8/12)

		11
		12 (22/24, 44/48, 88/96)
simplify	To simplify (or reduce) a fraction	Simplify 2/10.
	means to make it as simple as possible.	(1/5)
		Write the fraction $4/10$ in its
		simplest form.
	<i>R</i> * ⁴ <i>R</i>	(2/5)
	12 3	Lizzy owns 3 white hens, 4 brown
	с	hens and 5 black hens. What
	We can do this by dividing the	Write your answer in its simplest
	denominator and numerator by the	form.
	same number.	(3/4)
improper	An improper fraction is a fraction	Write as an improper fraction:
fraction	where the numerator (the top number)	21
	is greater than or equal to the	$2\frac{1}{2}$
	denominator (the bottom number).	(5/2)
	Larger 🕥	(5/2)
	(or equal)	1
	Smaller -5	$3\frac{1}{4}$
	(or equal)	7
	We refer to it as being 'top-heavy'.	(13/4)
		,1
		4-5
	A whole number and a fraction	(21/5) Write as a mixed number:
mixed number	combined into one is called a mixed	12
	number.	5
		(2.2/5)
	_ 1	10
	Whole Praction	$\frac{10}{2}$
	7	3
		(3 1/3)
		19
		5
		(3.4/5)
convert	To convert is to change a value or	Convert 2/5 into twentieths.
	expression from one form to another.	(2/5 = 8/20)
		Convert 80cm into metres?
		(U.8m)

	x 1000 x 100 x 10 Km m cm mm ÷ 1000 ÷ 100 ÷ 10	152cm =m (1.52m) 1.5kg =g (1500g)
sequence	A sequence is a list of numbers or objects in a special order. Sequence: 3, 5, 7, 9, Ist term 2nd term 2nd term ("term", "element" or "member" mean the same thing)	Insert the next 2 numbers in the following sequence: 5, 10, 20, 40, 80,, (160, 320) Can you find the next number: 1, 5, 9,13,(17) 1, 1½, 2, 2½,(3) 0.1, 0.6, 1.1, 1.6,(2.1)
percent (%) percentage	Percentage is a number or ratio which can be represented as a fraction of 100. Parts per 100 The symbol is % Example: 25% means 25 per 100 (25% of this box is green) The symbol (%) is used to denote percentage	What is 5 out of 10 as a percentage? (50%) Michael gets 16 out of 20 in a test, what percentage did he get correct? (80%) James gets 50% in a test that is out of 50, what score did he get? (25)
order	The arrangement of things in relation to each other according to a particular sequence or pattern.	Put the following numbers in order from smallest to largest: 1.9, 1.09, 19, 0.19, 1. (0.19, 1, 1.09, 1.9, 19) Put the following numbers in order from largest to smallest: 72,727, 27,727, 27,277, 77,227, 72,272 (27,277, 27,727, 72,272, 72,727, 77,227)