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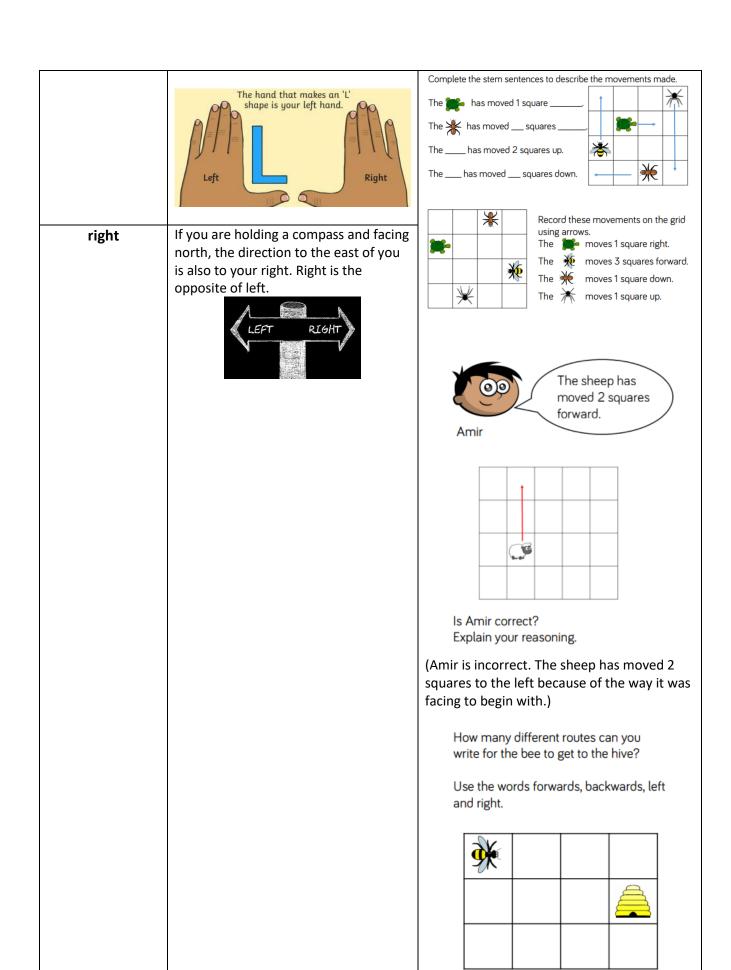


المدرسة الوطنية الدولية

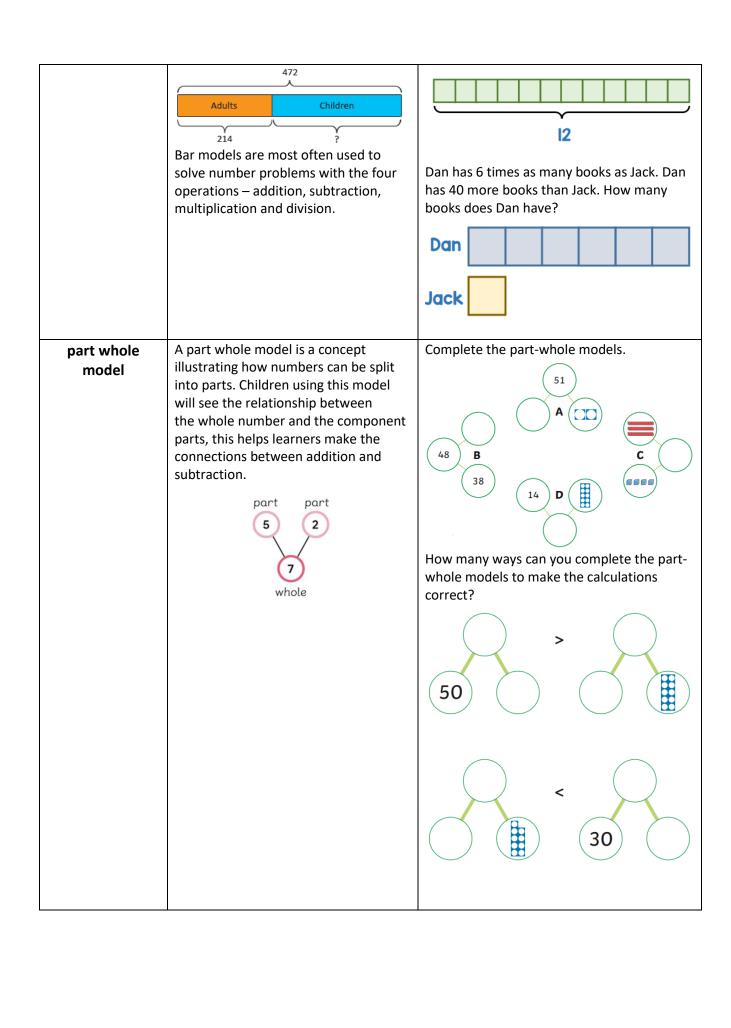
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Power Maths Key Vocabulary Year 2 – Block C

Explanation of Terms	Example Question(s)
Moving in the direction of hands on a clock is called clockwise. The opposite directions is anticlockwise. Clockwise Anti-Clockwise	How many different routes can you find to get from start to finish. Use the words 'forwards', 'backwards', 'clockwise', 'anti-clockwise' and 'quarter turn'. Start
Forwards means in the direction that one is facing or travelling; towards the front. Backwards means toward the back or rear. If you are holding a compass and facing north, the direction to the west of you is also to your left. Left is the opposite of right.	Convince me. (Possible answer: Whitney is correct. A quarter turn clockwise is the same as a three-quarter turn anticlockwise.) Using the words forwards, backwards, left and right, give your partner some instructions to follow when moving around the classroom/house.
	Moving in the direction of hands on a clock is called clockwise. The opposite directions is anticlockwise. Clockwise Anti-Clockwise Forwards means in the direction that one is facing or travelling; towards the front. Backwards means toward the back or rear. If you are holding a compass and facing north, the direction to the west of you is also to your left. Left is the opposite



half turn A half turn results in the object facing Always, Sometimes, Never the opposite direction (or backwards) If two objects turn in different directions to the direction it was originally facing. they will not be facing the same way. (Sometimes. It depends on how far the objects are turned – quarter, half, three quarters or full.) Look at the number shape below: The object will have turned 180°. If the object is facing upwards then quarter turn a quarter turn will mean that the object is then facing left or right, depending which direction it turns. How could the number shape have turned? The object will have turned 90°. Describe all possibilities. (No turn Quarter/half/three-quarter or full turn clockwise. Quarter/half/three-quarter or full turn anticlockwise.) Match the turn to the description. A full turn. A quarter turn clockwise. A half turn anticlockwise. Pam has 12 sweets. bar model A bar model is a pictorial representation of a problem or concept • She gives 3 sweets to her brother. where bars or boxes are used to • She gives 4 sweets to her sister. represent the known and unknown How many sweets does she have left? quantities.



o'clock When the minute hand points at 12 it • What do the numbers represent on the is showing the full hour. This time is clock face? called o'clock. • Which is the hour hand? Which is the minute hand? Where will the hour hand be at _____? Where will the minute hand be at _____? • What do you notice about the minute hand at half past? Who is telling the half past Half past means 30 minutes past an time correctly? hour. The number on the clock that the hour hand has just gone past tells us which hour we are half an hour past. The time is half past 6 Dora The time is half past 3 The time is half past 2 The word quarter means one-fourth. quarter past Alex When we say, "quarter past 6," we mean one-fourth of an hour past 6 Can you spot the mistakes they've o'clock, or 15 minutes past 6. made? (Alex is correct. Dora has confused the minute hand with the hour hand. Amir has not noticed that the hour hand has not gone past 3 yet.) The word quarter means one-fourth. quarter to When we say, "quarter to 6," we mean one-fourth of an hour to 6 It is half past 11 so the o'clock, or 15 minutes to 6. hour hand should be on the 11 Is Alex correct? Explain your reasoning.

minute hand	The large hand on a clock that points to	(Alex is incorrect. If the time is half past 11
	the minutes. It goes once around the	the hour hand should be half way between
hour hand	clock every 60 minutes (one hour).	the 11 and 12.)
	The small hand on a clock that shows the hours. It goes once around the clock every 12 hours (half a day).	Oh no! The minute hand has fallen off the classroom clock! Lunchtime is at 12:00 Have the children missed their lunchtime?
		(Unfortunately, the children have missed their lunch. The hour hand is halfway
		between 12 and 1 so the time is 12:30.)
balance	Balance is a state of equilibrium where mass or weight on either side of a measuring device is equal.	Choose three objects. Use the balance scal to order them from heaviest to lightest. The is heavier than the but lighter than the but heavier than the but heavier than the
		Apples weigh more than bananas.
		Two doughnuts weigh the same as two bananas.
		Do you agree? Explain why.
		(3 bananas weigh the same as two apples, Tommy is correct - an apple must weigh more than a banana. 1 banana weighs the same as 2 doughnuts so Eva is incorrect.)
		Always, sometimes or never true? The larger the box, the heavier it is. (sometimes)
scales	A scale is a set of levels or numbers	
	which are used in a particular system	

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	of measuring things or are used when comparing things.	Use scales to record the mass of objects in grams.
mass	Mass is a measure of the amount of	
gram (g)	matter in an object. Mass measures the quantity of matter regardless of both its location in the universe and	55 5 50 10 45 15
kilogram (kg)	the gravitational force applied to it. An object's mass is constant in all circumstances; contrast this with its weight, a force that depends on gravity. A gram is a unit of mass in the metric system defined as one thousandth of a	Which is heavier, the red or the green beanbag? Explain why. (The red beanbag weighs more because it
	kilogram.	weighs the same as two green beanbags.)
	A kilogram is equal to 1,000g.	The brown parcel weighs twice as much as the blue parcel. The green parcel weighs 2 kg more than 30 kg The blue parcel weighs 12 kg less than the green parcel. Draw an arrow to show where each parcel would be on the scale.
		0 10 20 30 40
		(The green parcel weighs 32kg. The blue parcel weighs 20kg. The brown parcel weighs 40kg.)
capacity	Capacity is the amount something can hold.	Which container has the largest/smallest capacity?
litre (I)		capacity? • How do you know?
	This is measure in litres (I) and millilitres (ml).	Can we order them from largest to smallest?
millilitre (ml)		Which container has the most or least liquid in?
volume	Volume is the amount of 3-dimensional space something takes up (also known as the capacity).	 How many mugs does it take to fill the bottle? Is this more or less than the pot? Can we find the difference? Does the tallest container always hold the most?
		Whitney had two full bottles of juice. She poured some juice into two glasses.

