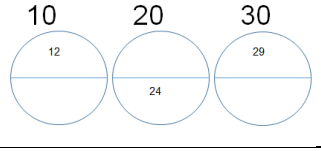
Term by Term Objectives

Year 5

	National Curriculum Statement	All students		
		Fluency	**Reasoning**	**Problem Solving**
Place Value	Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000	• Round the following numbers to the nearest a) 10 b)100 c) 1000 **4821, 69243, 2781** • In 2013, there were 778803 births in the UK. **What is this to the nearest 1000? Nearest 10000? Nearest 100000?** • In July 2015, the population of the UK was estimated to be 64881609. **What is this rounded to the nearest million?**	• A number rounded to the nearest 1000 is 54000. What is the largest possible number this could be? • Round the number 259996 to the nearest 1000. Round it to the nearest 10000. What do you notice about the answers? Can you think of 3 more numbers where the same thing would happen? • **True or False?** All numbers with a five in the tens column will round up when rounded to the nearest 100 and 1000.	• Nathan thinks of a number. He says 'My number rounded to the nearest 10 is 1150, rounded to the nearest 100 is 1200 and rounded to the nearest 1000 is 1000.' **What could Nathan's number be?** • Roll five dice; make as many 5 digit numbers as you can from them. Round each number to the nearest 10, 100, 1000 and 10,000. From your numbers, how many round to the same 10, 100, 1000 or 10,000? • In pairs, take it in turns to roll (if rounding to 10) two 0-9 dice. Create a number from it and choose where it rounds to. Record on a sheet like below. When the circle is filled, whoever filled it, gets a point. 

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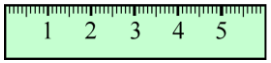
Decimals	Round decimals with two decimal places to the nearest whole number and to one decimal place.	• Fill in the boxes: 18.5 rounded to ☐ is 19 12.34 rounded to the nearest whole number is ☐ ☐ rounded to the nearest tenth is 14.4 • Round each of these to the nearest tenth: 4.38 2.72 10.04 • The sales for a supermarket increased by 82.78% during December. Round this to the nearest tenth.	• Simon is measuring a box of chocolates with a ruler that measures in centimetres and millimetres.  He measures it to the nearest cm and writes the answer 28cm. What is the smallest length the box of chocolates could be? • A decimal number between 11 and 20 rounds to the same number when rounded to the nearest tenth and the nearest whole number? What could this be? Is there more than one option? Explain why.	• Rounded to the nearest 0.1, A is 3.5 and B is 3.0. What is the smallest possible difference between A and B? What is the largest possible difference? Explain your strategy to a partner. • Use 3 10-sided dice (0-9) to create a decimal number to 2 decimal places.  Round this number to the nearest tenth. Are there any other decimal numbers you can make from these 3 digits? Do they round to the same tenth? What 3 numbers could you roll where more than 1 of the numbers would round to the same tenth? Why does this work? • What number with two or three decimal places round to 3.0 when rounded to the nearest tenth? Is the only option?

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Addition and Subtraction	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.	• A car showroom reduces the price of a car from £18750 to £14999. By how much was the price of the car reduced? Circle the most sensible answer: £3249, £4001, £3751 • A games console costs £245. Mike pays for this in 5 equal payments. To the nearest ten pounds, how much does he pay per payment? • A coach holds 78 people. 960 fans are going to a gig on the coaches. How many coaches are needed to transport the fans?	• Which of these number sentences have an answer that is between 0.6 and 0.7? 11.48 – 10. 86= 53.3 – 52.75= • **Always, sometimes, never** When you add up four even numbers, the answer is divisible by four. • Martin is measuring his room for a new carpet. It has a width of 2.3m and a length of 5.1m. He rounds his measurements to the nearest metre. Will he have the right amount of carpet? Explain your reasoning.	• **True or false.** 4999-1999 = 5000-2000 Explain how you know using a written method. • There are 1231 people on an aeroplane. 378 people have not ordered an inflight meal. How many people have ordered the inflight meal? Give your answer to the nearest hundred. The inflight meal costs £1.99 per person. The cabin crew have collected £1100 pounds so far. How much more money do they need to collect? Round your answer to the nearest pound.

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