


	National Curriculum Statement	All students																		
		Fluency	Reasoning	Problem Solving																
Place Value	Round any number to the nearest 10, 100 or 1000.	<table border="1"> <thead> <tr> <th></th> <th>Nearest 10</th> <th>Nearest 100</th> <th>Nearest 1000</th> </tr> </thead> <tbody> <tr> <td>667</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1274</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2495</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Nearest 10	Nearest 100	Nearest 1000	667				1274				2495				<ul style="list-style-type: none"> Caroline thinks that the largest whole number that rounds to 400 is 449. Is she correct? Explain why. Henry says '747 to the nearest 10 is 740.' Do you agree with Henry? Explain why. A number rounded to the nearest 10 is 550. What is the smallest possible number it could be? 	<ul style="list-style-type: none"> When a number is rounded to the nearest 100 it is 200. When the same number is rounded to the nearest 10 it is 250. What could the number be? Roll three dice. Make all the three digit numbers that you can using the three digits. Round them to the nearest 100. Can each of the numbers round to the same multiple of 100? Can all of the numbers round to a different multiple of 100? Using the number cards 0-9, can you make numbers that fit the following rules? <ol style="list-style-type: none"> When rounded to the nearest 10, I round to 20. When rounded to the nearest 10, I round to 10. When rounded to the nearest 1000, I round to 1000. When rounded to the nearest 100, I round to 7200.
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<ul style="list-style-type: none"> The school kitchen wants to order enough jacket potatoes for lunch. Potatoes come in sacks of 100. How many sacks do they need for 766 children? 																				



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Decimals	Round decimals with one decimal place to the nearest whole number.	<ul style="list-style-type: none"> Round the following numbers to the nearest whole number: $3.2 =$ $4.7 =$ $25.5 =$ Write all the decimals with one decimal place that round to 32 to the nearest whole number. Sort the numbers below into the table rounding each of them to the nearest whole number. 	<ul style="list-style-type: none"> Which decimals below round to 4 when rounded to the nearest whole number? $4.2, 3.8, 4.5, 3.5, 4.7$ <p>Explain your reasoning.</p> <ul style="list-style-type: none"> Two numbers with one decimal place both round to 23. The numbers add up to 46. What could the two numbers be? Explain your thinking. Write a list of five instructions of how to round decimals with one decimal place to the nearest whole number. 	<ul style="list-style-type: none"> Roll two dice. Using the numbers make two numbers with one decimal place. Round the numbers to the nearest whole number. How many combinations of the two dice can you find that would round to the same whole number?  <ul style="list-style-type: none"> Using the digit cards below, how many numbers can you make with one decimal place that would round to 45. You can only use each card once per number. 	
		<div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 5px;">23.1</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 5px;">23.2</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 5px;">24.4</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 5px;">23.5</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 5px;">23.4</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 5px;">24.3</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 5px;">23.9</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 5px;">22.8</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 5px;">22.5</div> </div> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 50%;">Rounds to 23</th> <th style="width: 50%;">Rounds to 24</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </tbody> </table>	Rounds to 23	Rounds to 24	
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Addition and Subtraction	<p>Estimate and use inverse operations to check answers to a calculation.</p>	<p>Julie has 578 stamps, Heidi has 456 stamps. How many stamps do they have altogether? Show how you can check your answer using the inverse.</p> <p>Estimate the answers to these number sentences. Show your working.</p> <p>3243 + 4428 7821 - 2941</p> <p>Check the answers to the following calculations using the inverse. Show all your working.</p> <p>762 + 345 = 1107 2456 - 734 = 1822</p>	<p>Jenny estimates the answer to $3568 + 509 \approx 4000$. Do you agree? Explain your answer.</p> <p>Grace says that $5129 - 3372 = 2257$ because: ' $5000 - 3000 = 2000$ $300 - 100 = 200$ $70 - 20 = 50$ $9 - 2 = 7$ so $5129 - 3372$ is 2257' Do you agree with Grace? Use an addition calculation to justify your answer.</p> <p>Always, sometimes, never. The difference between two odd numbers is odd.</p>	<p>Harry thinks of a number, he multiplies it by 3, adds 7 and then divides it by 2. How could he get back to his original number?</p> <p>If Harry starts with the number 3, write out all the calculations he will do to get back to his original number.</p>