

## Y10 Foundation Maths Weekly Task Grid – Week commencing 13<sup>th</sup> July

This week's topic focus is **Sample Space Diagrams**

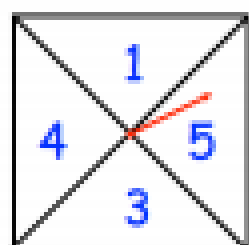
Please complete all 4 tasks.

<p style="text-align: center;"><b><u>Starter:</u></b></p> <p><b><u>Quick 10 (non-calc):</u></b></p> <ol style="list-style-type: none"><li>1) <math>3.7 \times 7.3</math></li><li>2) Share £54 in the ratio 7:2</li><li>3) Decrease 80 by 14</li><li>4) <math>5 - 20 \div 10 + 36</math></li><li>5) 10 pens cost 120p. How much would 15 pens cost?</li><li>6) Expand <math>5(x-2)</math></li><li>7) Solve <math>5x - 3 = 12</math></li><li>8) Factorise fully <math>6x + 12</math></li><li>9) What is the LCM of 5 and 7</li><li>10) <math>\frac{2}{5} + \frac{3}{7}</math></li></ol> <p><b><u>Problem Solving:</u></b></p> <p>5 schools sent some students to a conference. One of the schools sent both boys and girls. This school sent 16 boys. In this school the ratio of boys to girls was 1:2. The other 4 schools sent only girls. Each of the 5 schools sent the same number of students. Work out the total number of students sent to the conference by these 5 schools.</p>	<p style="text-align: center;"><b><u>Video on how to do it</u></b></p> <p style="text-align: center;"><b><i>Try to attend the zoom lesson first...</i></b></p> <p>You can <u>choose</u> which video you want to watch to refresh your memory on how to do frequency polygons</p> <p><a href="#">Corbett Maths – Sample Space Diagrams</a></p> <p>Or</p> <p><a href="#">You Tube – Sample Space Diagrams</a></p>
<p style="text-align: center;"><b><u>Practice Questions</u></b></p> <p>You can <u>choose</u> which questions you want to use to practice <b>Sample Space Diagrams</b>. The links to the answers are also provided so you can check them when you are finished.</p> <p style="text-align: center;"><a href="#">sample space diagram</a></p> <p>Answers to check – frequency trees <a href="#">answers</a></p> <p>Or</p> <p><b>Listing outcomes - MyMaths</b> - Log on with the details attached on show my homework and complete activity on frequency trees</p>	<p style="text-align: center;"><b><u>Exam Question Practice: Foundation</u></b></p> <p>Show any working out</p> <p>1)</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"><p>A pack of 20 toilet rolls costs £4.20. A pack of 9 toilet rolls costs £2.16. Which pack gives the better value for money? Show how you decide.</p></div> <p>2)</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"><p>Connor buy a pack of 12 bottles of water. The pack costs £3.12. Connor sells all the bottles for 40p each. Work out Connor's percentage profit. Give your answer correct to 1 decimal place.</p></div> <p>On the next page is an exam questions based on Sample Space Diagrams</p>

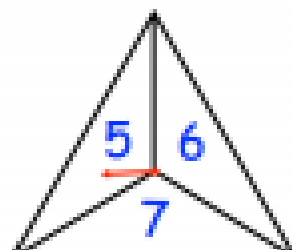
Two fair spinners are spun.

Spinner 1 has four equal sections labelled 1, 3, 4 and 5.

Spinner 2 has three equal sections labelled 5, 6 and 7.



Spinner 1



Spinner 2

Each spinner is spun once.

The numbers are added together to get a score.

(a) Complete the table to show all possible scores.

		Spinner 1			
		1	3	4	5
Spinner 2	5				
	6				
	7				

(2)

(b) Find the probability of scoring a 8

.....  
(1)

(c) Find the probability of scoring an odd number

.....  
(1)