



## Mr Coles' 7X1 Maths Weekly Task Grid – Week commencing 11<sup>th</sup> May

Choose 1 purple task, 1 orange task, 1 green task and 2 yellow tasks from the grid. Complete them this week.

<p><b>Task 1</b></p> <p>Create <a href="#">mind maps</a> of all the things you <b>already know</b> about <b>Two Way Tables</b>.</p> <p>When you learn something new, add it to your map.</p> <p>If you want to add <b>Frequency Polygons</b> to this as you go along, that is a great idea.</p>	<p><b>Task 2</b></p> <p><b>Frequency Polygons</b> and then <b>Two Way Tables</b> on the MyMaths Website. <a href="http://www.mymaths.co.uk">www.mymaths.co.uk</a></p> <p>Log on with your individual logins (email me if you can't get on)</p> <p>Work through the exercise then attempt the homework.</p>	<p><b>Task 3</b></p> <p><b>Frequency Polygons</b> and then <b>Two Way Tables</b> on the CorbettMaths Website: Videos: <a href="#">Frequency Polygons</a> and <a href="#">Two Way Tables</a></p> <p>Answer <b>5 questions from a variety of areas</b> (not just the first 5) on each of: <a href="#">Frequency Polygons</a> and then <a href="#">Two Way Tables</a></p> <p>Answers: <a href="#">Frequency Polygons</a> and <a href="#">Two Way Tables</a>.</p>	<p><b>Task 4</b></p> <p>Create a poster/PowerPoint/revision cards on <b>Frequency Polygons</b> and <b>Two Way Tables</b>. Website to help:</p> <p><a href="#">BBC Bitesize – Frequency Polygons</a></p> <p><a href="#">BBC Bitesize – Two Way Tables</a></p>																				
<p><b>Task 5</b></p> <p>Make a quiz/powerpoint/Kahoot on questions involving <b>Two Way tables</b>.</p> <p><b>NEW</b> OR </p> <p><b>Make up your own Two Way tables exam question.</b> Use the Apply Q3, Q4 or Q5 on CorbettMaths as a template. Best ones will be used next week!</p>	<p><b>Task 6</b></p> <p>Manga High: <a href="http://www.mangahigh.com/en-gb">www.mangahigh.com/en-gb</a> Attempt <b>Two Way Tables</b>.</p> <p>For a challenge try <b>Probability from Two Way Tables</b>. This is very important for students wanting to get the best grades.</p> <p>If you redo the exercise you will start on the level reached last time. You get more points for answering harder questions! Try to get at least a bronze medal.</p>	<p><b>Task 7</b></p> <p>Problem Solving: Ed has 4 cards. There is a number on each card.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">12</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">6</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">15</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">?</div> </div> <p>The mean of the 4 numbers on Ed's cards is 10.</p> <p>Work out the number on the 4th card.</p> <p>Enlarged on next pages.</p>	<p><b>Task 8</b></p> <div style="border: 1px solid black; padding: 5px;"> <p>If you aren't sure how to do any of these, just email me. I've enlarged the questions on the next page</p> </div> <ol style="list-style-type: none"> <li>1) <math>6.5 \times 4.3</math></li> <li>2) Share £24 in the ratio 7: 1</li> <li>3) Decrease 90 by <math>\frac{1}{5}</math></li> <li>4) <math>9 - 20 \div 5 + \sqrt{16}</math></li> <li>5) 7 pens cost 84p, how much would 11 pens cost?</li> <li>6) Expand <math>3x(x + 2)</math></li> <li>7) Solve <math>4x + 11 = 13</math></li> <li>8) What is the HCF of 12 and 18</li> <li>9) Factorise fully <math>18x^2 + 12x</math></li> <li>10) <math>\frac{5}{9} - \frac{2}{4}</math></li> </ol>																				
<p><b>Task 9</b></p> <p>Try at least 4 of these <a href="#">animal tangrams</a> and then screenshot them to upload to SMHW</p>  <p>Don't do this one if you did it last week though...</p>	<p><b>Task 10</b></p> <p>Try the Olympic maths mystery on two way tables. It is enlarged on the next few pages.</p> <p><b>NEW</b></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tbody> <tr> <td>The USA won 46 gold medals at London 2012</td> <td>China won 21 silver medals in Beijing</td> <td>GB won 18 more medals in total in London than they won in Beijing</td> <td>China won 68 medals in total at London 2012</td> </tr> <tr> <td>China won 188 medals in total at the last two Olympics combined</td> <td>In London, GB won 12 more gold medals than they did silver medals</td> <td>The USA won 62 gold medals in the last two Olympics combined</td> <td>GB won 30 silver medals in the last two Olympics combined</td> </tr> <tr> <td>China won 5 more bronze medals in Beijing than they did in London</td> <td>The USA finished above China in the medals table at London 2012</td> <td>China won 23 bronze medals at the London Olympics</td> <td>The USA won 9 fewer silver medals at London 2012 than they did at Beijing 2008</td> </tr> <tr> <td>GB won 29 gold medals at the London Olympics</td> <td>The USA won 38 silver medals at Beijing 2008</td> <td>GB won 65 medals in total at the London Olympics</td> <td>The USA won 29 bronze medals at London 2012</td> </tr> <tr> <td>The USA won 110 medals in total at Beijing 2008</td> <td>Team GB finished one place higher in the medals table in London than they did in Beijing</td> <td>China won 2 fewer silver medals in London than the USA did</td> <td>GB has won 48 gold medals at the last two Olympics combined</td> </tr> </tbody> </table>	The USA won 46 gold medals at London 2012	China won 21 silver medals in Beijing	GB won 18 more medals in total in London than they won in Beijing	China won 68 medals in total at London 2012	China won 188 medals in total at the last two Olympics combined	In London, GB won 12 more gold medals than they did silver medals	The USA won 62 gold medals in the last two Olympics combined	GB won 30 silver medals in the last two Olympics combined	China won 5 more bronze medals in Beijing than they did in London	The USA finished above China in the medals table at London 2012	China won 23 bronze medals at the London Olympics	The USA won 9 fewer silver medals at London 2012 than they did at Beijing 2008	GB won 29 gold medals at the London Olympics	The USA won 38 silver medals at Beijing 2008	GB won 65 medals in total at the London Olympics	The USA won 29 bronze medals at London 2012	The USA won 110 medals in total at Beijing 2008	Team GB finished one place higher in the medals table in London than they did in Beijing	China won 2 fewer silver medals in London than the USA did	GB has won 48 gold medals at the last two Olympics combined	<p><b>Task 11</b></p> <p>Answer this Riddle:</p> <p>Can you write down eight eights so that they add up to one thousand?</p>	<p><b>Task 12</b></p> <p><b>NEW</b> Go to the <a href="#">Quizizz website</a></p> <p>Click on the green Practice button &gt; Click Play &gt; Click Skip for now (where it asks you to sign up) &gt; and then the green Play quiz button.</p> <p>Attempt the 20 Questions on averages, charts and <b>frequency polygons</b>. Screenshot how well you did!</p>
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**Task 8**

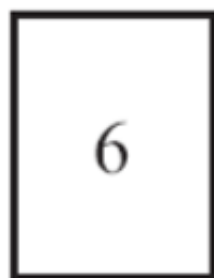
- 1)  $6.5 \times 4.3$
- 2) Share £24 in the ratio 7: 1
- 3) Decrease 90 by  $\frac{1}{5}$
- 4)  $9 - 20 \div 5 + \sqrt{16}$
- 5) 7 pens cost 84p, how much would 11 pens cost?
- 6) Expand  $3x(x + 2)$
- 7) Solve  $4x + 11 = 13$
- 8) What is the HCF of 12 and 18
- 9) Factorise fully  $18x^2 + 12x$
- 10)  $\frac{5}{9} - \frac{2}{4}$

Task 7

## Problem Solving:

Ed has 4 cards.

There is a number on each card.



The mean of the 4 numbers on Ed's cards is 10.

Work out the number on the 4th card.

**Task 10:** Use the statements above to draw and complete a two-way table, then use it to answer the questions below.

The USA won 46 gold medals at London 2012	China won 21 silver medals in Beijing.	GB won 18 more medals in total in London than they won in Beijing.	China won 88 medals in total at London 2012
China won 188 medals in total at the last two Olympics combined.	In London, GB won 12 more gold medals than they did silver medals.	The USA won 82 gold medals in the last two Olympics combined	GB won 30 silver medals in the last two Olympics combined.
China won 5 more bronze medals in Beijing than they did in London	The USA finished above China in the medals table at London 2012	China won 23 bronze medals at the London Olympics	The USA won 9 fewer silver medals at London 2012 than they did at Beijing 2008.
GB won 29 gold medals at the London Olympics	The USA won 38 silver medals at Beijing 2008	GB won 65 medals in total at the London Olympics	The USA won 29 bronze medals at London 2012
The USA won 110 medals in total at Beijing 2008.	Team GB finished one place higher in the medals table in London than they did in Beijing.	China won 2 fewer silver medals in London than the USA did.	GB has won 48 gold medals at the last two Olympics combined.

1. How many more medals did the USA win in Beijing than in London?
2. How many silver medals have the USA won at the last two Olympics combined?
3. How many more medals did China win in Beijing than they did in London?
4. How many gold medals have China won in total at the last two Olympics?
5. How many bronze medals have GB won at the last two Olympics combined?
6. In London, the USA won more medals than GB. How many more?