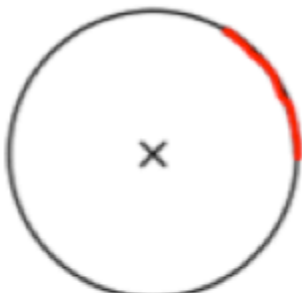
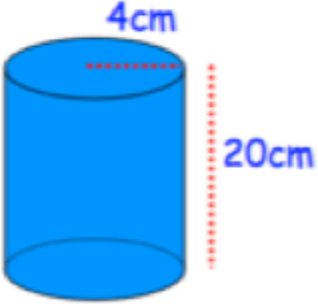


| July 30th   | 5-a-day  | Numeracy |
|---|--|----------|
| <p>List the first 5 multiples of 3</p> <p><b>5, 10, 15 ... ..</b></p>   | <p>List the factors of 10</p> <p><b>1, 2, 5, 10</b></p>  |          |
| <p>It costs £40 to hire a car for the first day, then £15 per extra day.</p> <p>How much does four days cost?</p> <p><b>Day 1 = £40 Day 2 = £55</b><br/> <b>Day 3 = £70 Day 4 = £85</b></p> |  |          |
| <p>Bill has £60</p> <p>He gives <math>\frac{1}{4}</math> to his mum</p> <p>He gives <math>\frac{2}{3}</math> to his friend</p> <p>He keeps the rest</p> <p>How much does:</p>               | <p>His mum receive? <b>£15</b></p> <p>His friend receive? <b>£40</b></p> <p>Bill receives? <b>£5</b></p>   |          |
| <p>15 26 35 37 40 54 60 72</p> <p>From the list write down:</p> <p>A factor of 30</p> <p><b>15</b></p>  | <p>A multiple of 7</p> <p><b>35</b></p>  |          |
| <p>1.75    2.2    4.5    8    30</p>  | <p>1 litre is approximately <b>1.75</b> pints</p> <p>1 foot is approximately <b>30</b> centimetres</p> <p>5 miles is approximately <b>8</b> kilometres</p> |          |

| July 30  | 5-a-day   | Foundation |     |        |   |   |      |   |   |   |  |
|--|---|------------|-----|--------|---|---|------|---|---|---|--|
|   | <p>What part of the circle is shown? (in red)</p> <p>Arc</p>                |            |     |        |   |   |      |   |   |   |  |
| <p>There are 95 girls in a school.<br/>The ratio of boys to girls is 4:5</p> <p>How many boys go to the school?</p> <p><math>95 \div 5 = 19</math></p>   | $\begin{array}{r} 19 \\ \times 4 \\ \hline 76 \end{array}$                  |            |     |        |   |   |      |   |   |   |  |
| <table border="1" data-bbox="175 974 694 1265"> <thead> <tr> <th></th> <th>French</th> <th>Art</th> </tr> </thead> <tbody> <tr> <th>Female</th> <td>8</td> <td>3</td> </tr> <tr> <th>Male</th> <td>7</td> <td>5</td> </tr> </tbody> </table> <p><math>\frac{11}{23}</math></p> |   | French     | Art | Female | 8 | 3 | Male | 7 | 5 | <p>A student is chosen at random.</p> <p>What is the probability they are female?</p> <p><math>\frac{11}{23}</math></p> |  |
|  | French  | Art        |     |        |   |   |      |   |   |   |  |
| Female   | 8   | 3          |     |        |   |   |      |   |   |   |  |
| Male   | 7   | 5          |     |        |   |   |      |   |   |   |  |
|  <p><math>\pi \times 4^2 \times 20 = 320\pi</math></p> <p>or <math>1005.3 \text{ cm}^2</math></p>   | <p>Calculate the volume</p>   |            |     |        |   |   |      |   |   |   |  |
| <p>Simplify</p> <p><math>y^5 \times y^2</math></p> <p><math>y^7</math></p>   | <p>Simplify</p> <p><math>y^{10} \div y^2</math></p> <p><math>y^8</math></p> |            |     |        |   |   |      |   |   |   |  |

| July 30   | 5-a-day   | Higher |
|---|---|--------|
| <p>Factorise</p> $y^2 + 8y + x^2y$ $y(y + 8 + x^2)$   | <p>Factorise</p> $4y^2 - 49$ $(2y - 7)(2y + 7)$   |        |
| <p>A light flashes every 42 seconds.<br/>A buzzer buzzes every 2 minutes.<br/>They both operate, how long until they both operate again?</p> <p><del><math>120 = 2 \times 2 \times 2 \times 3 \times 5</math></del></p> <p><math>LCM = 7 \times 2 \times 3 \times 2 \times 2 \times 5 = 840</math><br/>14 minutes</p> | <p>42</p> <p>120</p>  |        |
| <p>Work out</p> $\frac{(y - 2)^2}{4y} \quad \frac{(3.2 - 2)^2}{12.8}$ <p>if <math>y = 3.2</math></p>  | $\frac{1.2^2}{12.8} = 0.1125$   |        |
| <p><math>x^2 = 5.5^2 + 6.5^2</math><br/><math>x^2 = 72.5</math><br/><math>x = 8.5147</math> miles</p>   | <p>Calculate the distance XZ.</p>   |        |
| <p>What is the bearing of Z from X?</p> $\tan y = \frac{5.5}{6.5} \quad y = 40.24^\circ$ <p><math>220^\circ</math> (<math>220.24^\circ</math>)</p>  | <p>What is the bearing of X from Z?</p> <p><math>40.24^\circ</math></p> <p><math>040^\circ</math> (<math>040.24^\circ</math>)</p> |        |