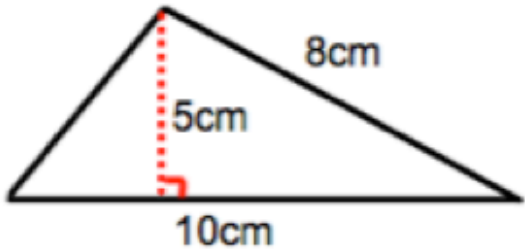
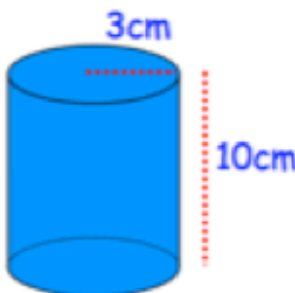
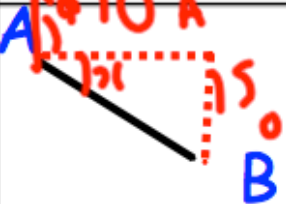


| July 13th | 5-a-day | Numeracy |
|---|---|----------|
| $34 + 26 =$ <p>Handwritten addition of 34 and 26:</p> $\begin{array}{r} 34 \\ + 26 \\ \hline 60 \end{array}$ | $34 \times 26 =$ <p>Handwritten multiplication of 34 and 26:</p> $\begin{array}{r} 34 \\ \times 26 \\ \hline 204 \\ 680 \\ \hline 884 \end{array}$ | |
| $50\% \text{ of } 60 = \underline{30}$ $25\% \text{ of } \underline{40} = 10$ | | |
| <p>Triangle with angles 70°, 50°, and x°. A handwritten 60° is written inside the triangle.</p> | Find x <p>Handwritten addition of 70 and 150:</p> $\begin{array}{r} 70 \\ + 150 \\ \hline 220 \end{array}$ <p>Handwritten subtraction of 120 from 180:</p> $\begin{array}{r} 180 \\ - 120 \\ \hline 60^\circ \end{array}$ | |
| Find the perimeter of the rectangle <p>Rectangle with dimensions 6 cm and 4 cm.</p> <p>1.75 2.2 4.5 8 30</p> <p>1 kilogram is approximately <u>2.2</u> pounds</p> <p>1 gallon is approximately <u>4.5</u> litres</p> | $4 + 4 + 6 + 6 = 20 \text{ cm}$ | |

| July 13 | 5-a-day | Foundation | | | | | | | | | | | | | | | |
|--|--|-----------------|--------------|---|---|----|---|---|----|---|---|----|-----------------|--|-----------------|--|--|
| <p>Calculate the area</p> $\frac{1}{2}(10 \times 5) = 25 \text{ cm}^2$ |  | | | | | | | | | | | | | | | | |
| <table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Age</th> <th style="padding: 5px;">Frequency</th> <th style="padding: 5px;">$f \times x$</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">5</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">15</td> </tr> <tr> <td style="padding: 5px;">6</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">30</td> </tr> <tr> <td style="padding: 5px;">7</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">14</td> </tr> <tr> <td colspan="2" style="padding: 5px; border-top: 1px solid black;">$\frac{10}{59}$</td> <td style="padding: 5px; border-top: 1px solid black;">$\frac{59}{59}$</td> </tr> </tbody> </table> | Age | Frequency | $f \times x$ | 5 | 3 | 15 | 6 | 5 | 30 | 7 | 2 | 14 | $\frac{10}{59}$ | | $\frac{59}{59}$ | <p>Calculate the mean</p> $59 \div 10 = 5.9$ | |
| Age | Frequency | $f \times x$ | | | | | | | | | | | | | | | |
| 5 | 3 | 15 | | | | | | | | | | | | | | | |
| 6 | 5 | 30 | | | | | | | | | | | | | | | |
| 7 | 2 | 14 | | | | | | | | | | | | | | | |
| $\frac{10}{59}$ | | $\frac{59}{59}$ | | | | | | | | | | | | | | | |
| <p style="text-align: center;">$2x + 7$</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 5px;"> $7x + 3$ </div> <p style="text-align: center;">$2x + 9$</p> <p style="text-align: right; margin-right: 50px;">$x + 3$</p> | <p>Write an expression for the perimeter.</p> $6x + 20$ | | | | | | | | | | | | | | | | |
|  | <p>Calculate the volume</p> $\pi \times 3^2 \times 10 = 282.7 \text{ cm}^3$ | | | | | | | | | | | | | | | | |
| <p>Before sale: £50 During sale: £30</p> <p>What is the percentage decrease in price?</p> | $\frac{20}{50} \times 100 = 40\%$ | | | | | | | | | | | | | | | | |

| July 13 | 5-a-day | Higher |
|---|--|--------|
| <p>What is the reciprocal of 8?</p> <p style="text-align: center;">$\frac{1}{8}$</p> | <p>What is the reciprocal of 0.4?</p> <p style="text-align: center;">$0.4 = \frac{2}{5}$</p> <p style="text-align: center;">$\frac{5}{2}$ or 2.5 or $2\frac{1}{2}$</p> | |
| <p>A item in a shop is increased in price by 20% and then decreased in price by 20% a month later.</p> <p>Is there an overall increase or <u>decrease</u> in price and by how much?</p> | <p style="text-align: center;">$100 \xrightarrow{\times 1.2} 120 \xrightarrow{\times 0.8} 96$</p> <p style="text-align: center;">decrease by 4%</p> | |
| <p>The length of a 80m running track is correct to the nearest metre.</p> <p>The time taken for Nicole to run the distance is 13.6 seconds measured to the nearest one-tenth of a second.</p> | <p>What is the slowest possible average speed?</p> <p style="text-align: center;">$s = \frac{d}{t}$ low high</p> <p style="text-align: center;">$\frac{79.5}{13.65} = 5.824175 \text{ m/s}$</p> | |
| <p>A helicopter takes off from town A and travels 10 miles on a bearing of 090° and then 15 miles on a bearing of 180° to land at town B.</p> <p>What is the bearing of B from A?</p> |  <p style="text-align: center;">$\tan x = \frac{10}{15}$</p> <p style="text-align: center;">$x = 33.7^\circ$</p> <p style="text-align: center;">bearing = $90 + 34 = 124^\circ$</p> | |
| <p>A football team obtains 3 points for a win, 1 point for a draw and no points for a loss.</p> <p>For any match $P(\text{win}) = 0.6$ $P(\text{draw}) = 0.3$ $P(\text{loss}) = 0.1$</p> | <p>The team plays 3 matches. What is the probability of the team obtaining exactly 7 points?</p> <p style="text-align: center;">$WWD = 0.6 \times 0.6 \times 0.3 = 0.108$</p> <p style="text-align: center;">$WOW = 0.6 \times 0.3 \times 0.6 = 0.108$</p> <p style="text-align: center;">$DWW = 0.3 \times 0.6 \times 0.6 = 0.108$</p> <p style="text-align: center;"><u>0.324</u></p> | |