<table>
<thead>
<tr>
<th>December 5th</th>
<th>5-a-day</th>
<th>Numeracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 x 10</td>
<td>2900 ÷ 10</td>
<td></td>
</tr>
<tr>
<td>170</td>
<td>290</td>
<td></td>
</tr>
<tr>
<td>Work out</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 + 3 x 2</td>
<td>9 + 6 = 15</td>
<td></td>
</tr>
<tr>
<td>Write down the first five multiples of 7.</td>
<td>Write down all the factors of 24.</td>
<td></td>
</tr>
<tr>
<td>7 14 21 28 35</td>
<td>1 2 3 4 6 8 12 24</td>
<td></td>
</tr>
<tr>
<td>A standard box of cereal contains 480g of cereal.</td>
<td>How much cereal does the smaller box contain?</td>
<td></td>
</tr>
<tr>
<td>A smaller box contains ( \frac{1}{3} ) less cereal.</td>
<td>480 ÷ 3 = 160</td>
<td></td>
</tr>
<tr>
<td></td>
<td>480 - 160 = 320g</td>
<td></td>
</tr>
</tbody>
</table>

\[
\text{Find } y
\]

\[
40^\circ
\]

\[
y
\]

\[
50^\circ
\]
**December 5**

<table>
<thead>
<tr>
<th>5-a-day</th>
<th>Foundation</th>
</tr>
</thead>
<tbody>
<tr>
<td>George is going on holiday to Poland.</td>
<td>![Image of 120 divided by 5 equal to 600 Zloty]</td>
</tr>
<tr>
<td>George changes £120 into Zloty. The exchange rate is £1 = 5 Zloty.</td>
<td></td>
</tr>
<tr>
<td>Work out how many Zloty George gets for £120.</td>
<td></td>
</tr>
</tbody>
</table>
| ![Diagram of two angles, one marked 111° and another marked x] | Work out the size of the angle.  
69°  
Give a reason for your answer.  
Co-interior angles |
| Find the midpoint of \[\frac{5}{6}, \frac{1}{3}\] |  
\[\frac{5}{6} + \frac{1}{3} = \frac{2}{6} = \frac{7}{6}\]  
\[\frac{7}{6} ÷ 2 = \frac{7}{6} \times \frac{1}{2} = \frac{7}{12}\] |
| Write 28 as a product of primes. |  
\[2^2 \times 7\] |

Write down the inequality shown above:

\[x > -2\]
### December 5

**5-a-day**

<table>
<thead>
<tr>
<th>Solve $3(2x - 6) = 12$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6x - 18 = 12$</td>
</tr>
<tr>
<td>$6x = 30$</td>
</tr>
<tr>
<td>$x = 5$</td>
</tr>
</tbody>
</table>

**Higher**

Monday: 10 apples and 5 bananas cost £4.20

Friday: 8 apples and 10 bananas cost £5.40

Find the cost of each.

<table>
<thead>
<tr>
<th>$10x + 5y = 4.20$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$8x + 10y = 5.40$</td>
</tr>
</tbody>
</table>

\[
\begin{align*}
20x + 10y &= 8.40 \\
8x + 10y &= 5.40 \\
12x &= 3.00 \\
x &= 0.25
\end{align*}
\]

An apple is 25p

A banana is 34p

---

**Triangle:**

\[
\frac{1}{2} \times a \times b \times \sin C = \frac{1}{2} \times 5 \times 5 \times \sin 75^\circ = 12.074 \text{ cm}^2
\]

Find the area of the segment

**Sector**

\[
\frac{75 \times \pi \times 5^2}{360} = 6.3624\ldots
\]

Segment

\[
16.3624\ldots - 12.074 = 4.288 \text{ cm}^2
\]

---

**Make x the subject**

\[
y = \frac{x + 3}{x - 8}
\]

\[
y(x - 8) = x + 3
\]

\[
xy - 8y = x + 3
\]

\[
xy - x = 8y + 3
\]

\[
x(y - 1) = 8y + 3
\]

\[
x = \frac{8y + 3}{y - 1}
\]