<table>
<thead>
<tr>
<th>May 28th</th>
<th>5-a-day</th>
<th>Numeracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>3847 + 427&lt;br&gt;[\frac{3847}{1427}] 4274</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Give an event where you think the probability is likely.</td>
<td>A day being sunny in July&lt;br&gt;Rolling a number less than 6</td>
<td></td>
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<tr>
<td>Eight people book a holiday, costing $284 each. How much is the total cost?</td>
<td>$2272</td>
<td></td>
</tr>
<tr>
<td>One angle in an isosceles triangle is 40°. Write down the sizes of the other two angles.</td>
<td>48°, 100°</td>
<td>70°, 70°</td>
</tr>
<tr>
<td>The mean number of goals scored in a season by seven players were: 48 32 0 62 11 21 43 = 217 &lt;br&gt;a) Calculate the mean (\frac{217}{2} = 31)</td>
<td>b) An eighth player brings the mean goals scored up to 33. How many goals did he score? (33 \times 8 = 264) (264 - 217 = 47)</td>
<td></td>
</tr>
</tbody>
</table>
### May 28th

#### 5-a-day

**Expand** $6x(2x + 5)$

\[12x^2 + 30x\]

**Factorise** $8x + 12$

\[4(2x + 3)\]

#### Foundation

**Round** 6125 correct to 1 significant figure

**Round** 0.374 correct to 1 significant figure

\[6000\]

\[0.4\]

**Calculate an estimate for:**

\[
\frac{31 \times 4.92}{0.21} = \frac{30 \times 5}{0.2}
\]

\[\frac{150}{0.2} = 750\]

**Do you agree that pasta is better than pizza?**

**Give a criticism of this question.**

*Leading*

**Write a question to find out how often someone eats pizza. Include response boxes**

How many times, each month, do you eat pizza?

\[\square 0-1 \quad \square 2-3 \quad \square 4-5 \quad \square 6+\]

<table>
<thead>
<tr>
<th>Expression</th>
<th>Length</th>
<th>Area</th>
<th>Volume</th>
<th>None of these</th>
</tr>
</thead>
<tbody>
<tr>
<td>$x + y + z$</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$xyz$</td>
<td></td>
<td></td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>$xy + yz + xz$</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
</tbody>
</table>
May 26

5-a-day

The area of a rectangle is 100cm²

The width of the rectangle is x cm
The length is 5cm longer.

Write an equation and solve it using trial and improvement, to one decimal place.

\[ x \times (x + 5) = 100 \]
\[ x^2 + 5x = 100 \]

Find x

\[ x = 100 \]

Higher

\[ x^2 + 5x = \text{Correct} \]

\[ \begin{align*}
7 & \quad 84 & \downarrow \\
8 & \quad 104 & \uparrow \\
7.9 & \quad 101.91 & \uparrow \\
7.8 & \quad 99.84 & \uparrow \\
7.85 & \quad 100.875 & \uparrow \\
7.8 & \quad 78.5 & \downarrow \\
\end{align*} \]

There are 10 socks in a bag.
6 black and 4 white.

Two socks are picked at random.

Complete the tree diagram

What is the probability of two white socks?

\[ \frac{4}{10} \times \frac{3}{9} = \frac{12}{90} = \frac{2}{15} \]

What is the probability of two socks of the same colour?

\[ BP \cup WP = \frac{5}{10} \times \frac{5}{9} = \frac{1}{3} \]

\[ P(\text{white}) = \frac{2}{15} + \frac{1}{3} = \frac{7}{15} \]