### Arrow lands on Points

<table>
<thead>
<tr>
<th>Arrow lands on</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>gold</td>
<td>9</td>
</tr>
<tr>
<td>red</td>
<td>7</td>
</tr>
<tr>
<td>blue</td>
<td>5</td>
</tr>
<tr>
<td>black</td>
<td>3</td>
</tr>
<tr>
<td>white</td>
<td>1</td>
</tr>
</tbody>
</table>

Caryl’s 6 arrows land on:
- gold, gold, red, blue, blue and black.

Gwen’s 6 arrows land on:
- gold, gold, white, white, white and white.

Who wins, and by how many points?

Show how you work it out.

She has more points than

wins
To win his game, Jac must score 46 points with his 6 arrows.

His first 3 arrows land on red, black and black.

Show why Jac can’t win.

Jac could score 46 points with 1 arrow on white and 5 on gold.

Show another two ways for Jac to score exactly 46 points with 6 arrows.

Another way to score 46 with 6 arrows

Another different way to score 46 with 6 arrows
Adults and children play tug of war.

**Rule:** For each adult, there are 3 children.

Example:

2 adults

6 children

8 people altogether

In the first game, 15 children play.

Use the rule to work out how many adults play with them.

In the second game, 40 people play altogether.

Work out how many are adults and how many are children.
Three numbers from 1 to 20 include the digit 2

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

Work out how many numbers from 1 to 100 include the digit 7
The numbers on opposite sides of a dice **always add up to 7**

Examples: ◆ is opposite ◆, $3 + 4 = 7$

◆ is opposite ◆, $2 + 5 = 7$

The numbers on these three dice add up to 17

What do the numbers on their opposite sides add up to?

The numbers on **four** dice add up to 5

Work out what the numbers on their opposite sides add up to.
This staircase has steps that are all the same height.

When Erin is on the third step, she is exactly the same height as Olek.

84 cm

140 cm

Olek is 140 cm tall.

? cm

How tall is Erin?

Hint: the answer is not 56 cm.