### 22nd December

The front elevation of a solid shape is a triangle.  
The side elevation of the solid shape is a triangle.  
The plan view of the solid shape is a square.

Write down the name of the shape.

James bought a house.  
In the first year the value of the house decreased by 10%.  
In the second year the value of the house increased by 10%.

Is the house worth more, less, or the same as what James paid for it?  
Explain your answer.

<table>
<thead>
<tr>
<th>S</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5cm</td>
<td>9.6cm</td>
</tr>
<tr>
<td>2.2cm</td>
<td>4.5cm</td>
</tr>
</tbody>
</table>

Trapezium S and trapezium T are similar.

Find the size of x.

There are 40 children at a youth club.  
There are 23 girls.  
9 girls play rounders.  
4 boys do not play rounders.

How many boys play rounders at the youth club?

Expand and simplify

\[(w + 3)(w + 4) - (w + 2)(w + 7)\]