## Challenge Cards (F and H)



<ul> <li>Kyle took a survey of trees in an area of a forest. Of all the trees that Kyle counted</li> <li><sup>2</sup>/<sub>5</sub> were Ash trees</li> <li>35% were Sycamore trees</li> <li>The rest were either Holly or Oak in the ratio 3:2.</li> <li>20 of the trees were Holly trees.</li> <li>Work out how many of the trees Kyle counted were Sycamore.</li> </ul>	The shape is made of two congruent right angled triangles. Find the perimeter of the shape in centimetres to 1 decimal place.
<ul> <li>Below are four numbers.</li> <li>6.31 × 10<sup>5</sup> 1 × 10<sup>5</sup> 805000 9.02 × 10<sup>4</sup></li> <li>a) Find the median of the four numbers. Give your answer in standard form.</li> </ul>	<ul> <li>Hazel is planting a wildflower garden from seed.</li> <li>Hazel knows that she needs 160 g of seeds to cover 40 m<sup>2</sup> of garden. Hazel's garden is circular with a diameter of 17 m.</li> <li>Wildflower seeds come in packets of 250 g for £48.</li> <li>Hazel has £200 to spend. Does she have enough money to plant enough seeds to cover the whole garden? You must show how you get your answer.</li> </ul>
b) Calculate the mean of the four numbers. Give your answer as an ordinary number.	
c) What is the range of the four numbers?	

## **Challenge Cards (F and H)**

**ANSWERS** 



