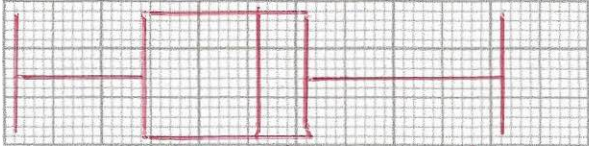
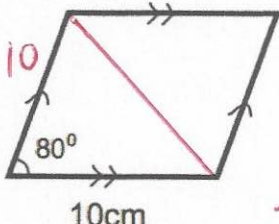


<p><b>22nd February</b></p> <p><math>\sqrt{7} \times \sqrt{2}</math></p> <p><math>\sqrt{14}</math></p>	<p>Work out</p> <p><math>(\sqrt{3})^2</math></p> <p><math>\sqrt{3} \times \sqrt{3} = \sqrt{9}</math></p> <p><math>= 3</math></p>
<p>A sphere of diameter 4cm is cut from a cube with side length 4cm.</p> <p><math>4 \times 4 \times 4 = 64</math></p> <p>What percentage of the cube is wasted?</p> <p><math>\frac{4}{3} \times \pi \times r^3</math></p> <p><math>= \frac{4}{3} \times \pi \times 2^3 = 33.51</math></p>	<p><math>64 - 33.51 = 30.4896</math> <i>wasted</i></p> <p><math>\frac{30.4896}{64} \times 100 = 47.64\%</math></p>
<p>A company employs 200 people.</p> <p>25% of the employees earn under £24,000. <i>La</i></p> <p>50% of the employees earn over £36,000. <i>m</i></p> <p>The interquartile range of the earnings is £7,000. <i>UQ = £1000</i></p> <p>The person who earns the most is paid £61,000. <i>Highest</i></p> <p>The range of the earnings is £50,000.</p> <p><math>61000 - 50000 = 11000</math></p>	 <p>Draw a box plot to show this information</p>
<p>Make m the subject of</p> <p><math>m(r + p) = r(h - m)</math></p> <p><math>mr + mp = rh - rm</math></p> <p>or</p> <p><math>mr + mp = rh - mr</math></p>	<p><math>2mr + mp = hr</math></p> <p><math>m(2r + p) = hr</math></p> <p><math>m = \frac{hr}{2r + p}</math></p>
 <p><math>\frac{1}{2} ab \sin C</math></p> <p><math>\frac{1}{2} \times 10 \times 10 \times \sin 80</math></p> <p><math>= 49.24 \text{ cm}^2</math></p>	<p>Shown is a rhombus of side length 10cm. Calculate its area.</p> <p><math>98.4808 \text{ cm}^2</math></p>