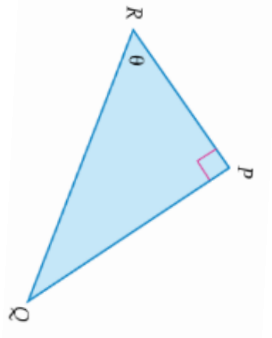
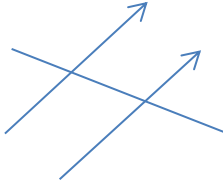
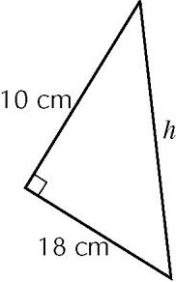
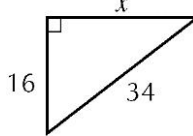


If a question has more than 1 mark, show some working out for full marks.

Due: _____

| | | | | | | | | | | | | | | |
|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <p>1. Pythagoras' Theorem (2)</p> <p>Label the sides of this right angled triangle with O, A and H.</p>  | <p>2. Fractions (2)</p> <p>Multiply and simplify</p> $\frac{2}{3} \times \frac{1}{4}$ | <p>3. Statistics – stem and leaf plots (3)</p> <p>Produce a stem and leaf plot for the following data set.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>143</td> <td>150</td> <td>152</td> <td>157</td> </tr> <tr> <td>159</td> <td>163</td> <td>163</td> <td>167</td> </tr> <tr> <td>170</td> <td>174</td> <td>177</td> <td>180</td> </tr> </table> | 143 | 150 | 152 | 157 | 159 | 163 | 163 | 167 | 170 | 174 | 177 | 180 |
| 143 | 150 | 152 | 157 | | | | | | | | | | | |
| 159 | 163 | 163 | 167 | | | | | | | | | | | |
| 170 | 174 | 177 | 180 | | | | | | | | | | | |
| <p>4. Standard Notation (1)</p> <p>Write 4.56×10^3 as a number.</p> | <p>5. Index Laws (2)</p> <p>Simplify</p> <p>a) $h^7 \times h$</p> <p>b) $2^4 \times 2^5$</p> | <p>6. Geometry- angles(1)</p> <p>Show a pair of alternate angles.</p>  | | | | | | | | | | | | |
| <p>7. Expanding (4)</p> <p>a) $3(x - 1)$</p> <p>b) $2x(x - 3)$</p> <p>c) $(x + 1)(x - 3)^*$</p> <p>*challenge</p> | <p>8. Financial Arithmetic (3)</p> <p>John is a salesman of vacuum cleaners who receives 2% of his sales and a retainer of \$300 per week. What is his income in a week when he sells three vacuums worth \$499, \$99 and \$1200?</p> | <p>9. Measurement (3)</p> <p>What is the area of a circle with radius of 6cm? Hint $A = \pi r^2$</p> | | | | | | | | | | | | |
| <p>10. Find the length of the unknown sides (6)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>a)</p> </div> <div style="text-align: center;">  <p>b)</p> </div> </div> | | | | | | | | | | | | | | |