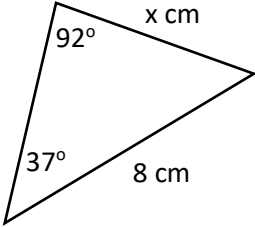


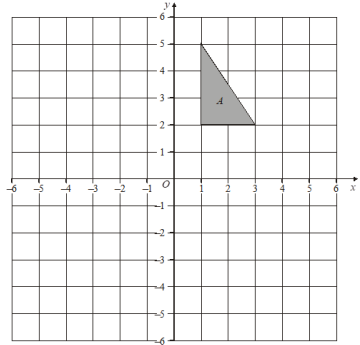
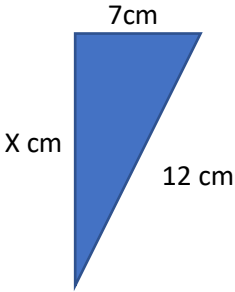
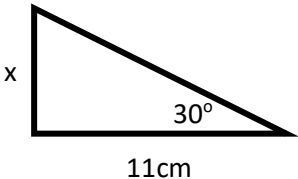
YEAR 11 HOMEWORK – 5R

Complete the questions in each box. Make sure that you show all of your workings

| | |
|-------------------------------------|--|
| 1. Round 7.2222 to 3 decimal places | 2. Solve $7b + 2 = 3b + 22$ |
| 3. $(-42) + (-5)$ | 4. Here are four numbers. -5 -3 3 5 Write one number in each box to make a correct calculation <div><div></div> + <div></div> = 2</div> |

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|--|--|
| 5. Write down the first 5 terms: $4n + 2$ | 6. Light bulbs cost £ b each and candles cost £ c each. Write down a formula for the cost C of 4 lightbulbs and 7 candles |
| 7. Write 150 as a product of prime factors | 8. The ratio of adults to children on a train is 7 : 2. There are 360 adults on the train. Find the total number of people on the train. |
| 9. Lesley records the number of emails she receives each day for 15 days. Draw a stem and leaf diagram: 24, 22, 18, 41, 33, 24, 13, 9, 27, 34, 21, 3, 13, 27, 31 Find the range, median and mode | 10. Use sine rule to find x  |

| <p>11. The temperature of a fridge is checked regularly. Here are the results</p> <table border="1"> <thead> <tr> <th>Temperature °C</th><th>Frequency</th></tr> </thead> <tbody> <tr> <td>$2.5 < t \leq 3$</td><td>7</td></tr> <tr> <td>$3 < t \leq 3.5$</td><td>11</td></tr> <tr> <td>$3.5 < t \leq 4$</td><td>14</td></tr> <tr> <td>$4 < t \leq 4.5$</td><td>3</td></tr> <tr> <td>$4.5 < t \leq 5$</td><td>1</td></tr> </tbody> </table> <p>a) Write the modal class b) Estimate the mean temperature</p> | Temperature °C | Frequency | $2.5 < t \leq 3$ | 7 | $3 < t \leq 3.5$ | 11 | $3.5 < t \leq 4$ | 14 | $4 < t \leq 4.5$ | 3 | $4.5 < t \leq 5$ | 1 | <p>12. Solve the equation $x^2 + 7x - 30 = 0$</p> |
|--|---|-----------|------------------|---|------------------|----|------------------|----|------------------|---|------------------|---|--|
| Temperature °C | Frequency | | | | | | | | | | | | |
| $2.5 < t \leq 3$ | 7 | | | | | | | | | | | | |
| $3 < t \leq 3.5$ | 11 | | | | | | | | | | | | |
| $3.5 < t \leq 4$ | 14 | | | | | | | | | | | | |
| $4 < t \leq 4.5$ | 3 | | | | | | | | | | | | |
| $4.5 < t \leq 5$ | 1 | | | | | | | | | | | | |
| <p>13. Solve the inequality</p> $2x + 6 \leq 4$ | <p>14. Two unbiased dice are thrown. The scores are added together. Draw a diagram to represent the possible outcomes</p> | | | | | | | | | | | | |
| <p>15. Jarred earns £101.50 for working 7 hours in a café. Calculate how much he will be paid for working 10 hours.</p> | <p>16. Calculate the speed of an object that moves 450km in 9 hours</p> | | | | | | | | | | | | |

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|---|---|
| <p>17. Reflect the triangle in the line $x = -2$</p>  | <p>18. A pack of 40 cakes costs £8.10. In a different shop, a pack of 35 cakes costs £6.00. Which pack is better value?</p> |
| <p>19. Use Pythagoras theorem to find the value of X</p>  | <p>20. Use trigonometry to find x</p>  |

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| WWW | |
| EBI 1 | |
| EBI 2 | |

