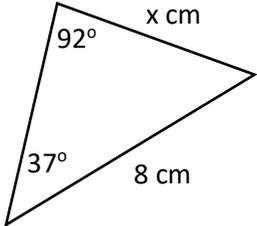


YEAR 11 HOMEWORK – 5R

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

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

<p>5. Write down the first 5 terms:</p> <p>$4n + 2$</p>	<p>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</p>
<p>7. Write 150 as a product of prime factors</p>	<p>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.</p>
<p>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</p> <p>Find the range, median and mode</p>	<p>10. Use sine rule to find x</p> 

11. The temperature of a fridge is checked regularly. Here are the results

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

- a) Write the modal class
b) Estimate the mean temperature

12. Solve the equation $x^2 + 7x - 30 = 0$

13. Solve the inequality

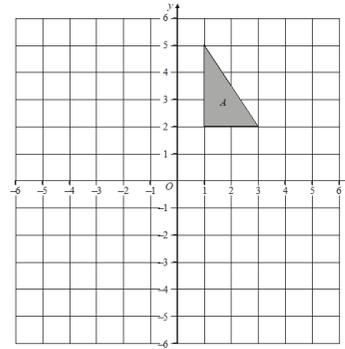
$$2x + 6 \leq 4$$

14. Two unbiased dice are thrown. The scores are added together. Draw a diagram to represent the possible outcomes

15. Jarred earns £101.50 for working 7 hours in a café. Calculate how much he will be paid for working 10 hours.

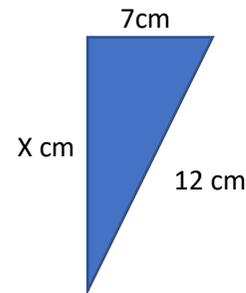
16. Calculate the speed of an object that moves 450km in 9 hours

17. Reflect the triangle in the line $x = -2$

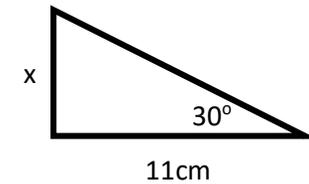


18. A pack of 40 cakes costs £8.10. In a different shop, a pack of 35 cakes costs £6.00. Which pack is better value?

19. Use Pythagoras theorem to find the value of X



20. Use trigonometry to find x



WWW	
EBI 1	
EBI 2	

