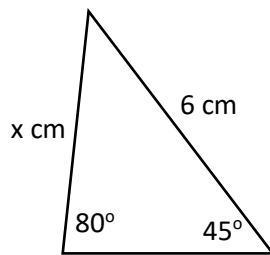


YEAR 11 HOMEWORK – 4R

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

<p>1. Round 5.437 to 1 decimal place</p>	<p>2. Solve $12b + 5 = 8b + 13$</p>
<p>3. $(6) - (-4)$</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 next 2 terms: 20, 17, 14, 11, ...</p>	<p>6. I have £100 to spend. I buy n books at £9 each. Write a formula for the amount of money, Q that I have left.</p>
<p>7. Find the highest common factor of 23 and 46</p>	<p>8. The ratio of adults to children on a train is 7 : 2. There are 245 adults on the train. Find the total number of people on the train.</p>
<p>9. Lesley records the number of texts she receives each day for 15 days. Draw a stem and leaf diagram: 13, 25, 16, 35, 28, 24, 13, 6, 27, 38, 20, 2, 13, 25, 31 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
$2.5 < t \leq 3$	4
$3 < t \leq 3.5$	25
$3.5 < t \leq 4$	13
$4 < t \leq 4.5$	5
$4.5 < h \leq 5$	3

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

12. Solve the equation $x^2 + 5x + 6 = 0$

13. Solve the inequality

$$5x + 4 < 14$$

14. The table shows the probabilities of scores on a biased dice.

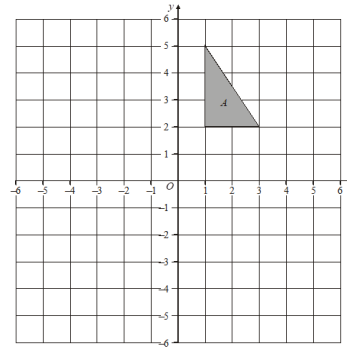
No.	1	2	3	4	5	6
P	0.1	0.15	0.05	0.1	2x	x

Find the value of x

15. Six people take 5 days to pick a crop of oranges. How long would it take 4 people to pick the same crop?

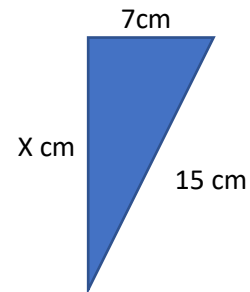
16. Calculate the speed of an object that moves 500km in 8 hours

17. Reflect the triangle in the line $x = -1$

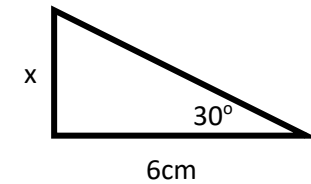


18. A pack of 45 cakes costs £8.10. In a different shop, a pack of 30 cakes costs £6.00. Which pack is better value?

19. Use Pythagoras theorem to find the value of X



20. Use trigonometry to find x



WWW	
EBI 1	
EBI 2	