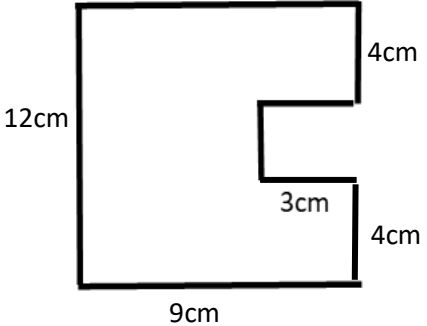
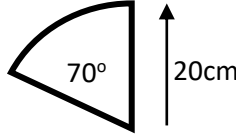
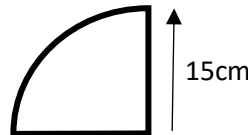


YEAR 10 HOMEWORK – 6R

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

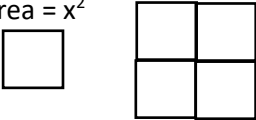
<p>1. Find the area:</p> 	<p>2. Find the Area:</p> 
<p>3. Find the perimeter:</p> 	<p>4. Simplify: $\frac{3k^2 + 12k}{3k}$</p>

<p>5. Dianne states that $5e^3 \times 6e^3 = 11e^6$. What mistake has been made?</p>	<p>6. Rhys writes $8f \div 2 = 4$. What mistake has been made?</p>
<p>7. Write two different divisions that simplify to $8x^2$</p>	<p>8. Draw a stem and leaf diagram: 32, 48, 51, 55, 61, 32, 66, 68, 60, 74, 75, 77, 78, 44, 93</p>
<p>9. Factorise: $4p^3q + 8p^2q$</p>	<p>10. Find the value of P when a = 4 and b = 8 and c = 1:</p> $P = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

11. A dice is rolled. What is the probability of rolling an odd number?

12. Four small squares fit together to make a new larger square. Write an expression for the perimeter of the larger square.

Area = x^2



Perimeter=

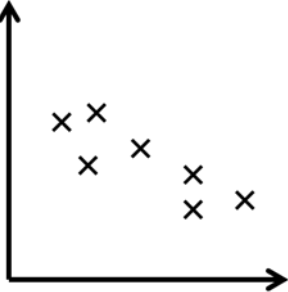
13. Complete the table to show the angles required for a pie chart

Favourite Food	Number of people	Size of angle
Chinese	10	
Indian	8	
Kebab	6	
Other	4	
TOTALS		

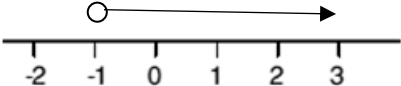
14. Find the **median** and the **quartiles** from the list below.

133 147 160 132 162 158 159 152 152 115 163

15. What type of correlation?



16. Write the inequality shown on the number line



17. Estimate the mean

Number of hours worked (t)	Frequency
$0 < t \leq 30$	0
$30 < t \leq 40$	8
$40 < t \leq 50$	18
$50 < t \leq 60$	55
$60 < t \leq 70$	42
$70 < t \leq 80$	41

18. Estimate the solution:

$$\frac{798 + 421}{34}$$

19. Mr Issatt is 182cm tall to the nearest centimetre. Write the error interval for his height.

20. Calculate $4\frac{1}{4} - 3\frac{1}{3}$

WWW	
EBI 1	
EBI 2	