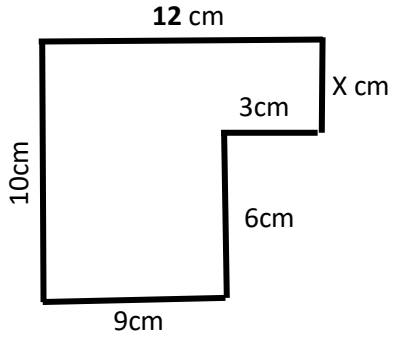
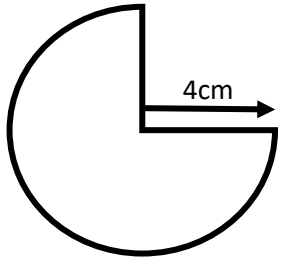
YEAR 10 HOMEWORK – 6S

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

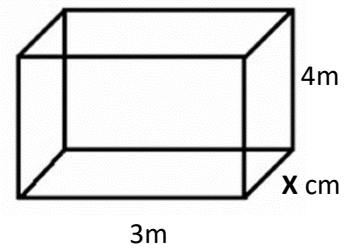
1.Find the area:



2. Find the Area:



3. If the volume is $60m^3$. What is the length of the missing side?



4. Simplify:

$3q^2 + 5p^2 – 2q^2 + 3p$

5. Calculate

$$\frac{2}{3} + \frac{1}{6}$$

6. Simplify $\frac{5pq}{q}$

7. Write an expression for the perimeter in its simplest form and find f if the perimeter is 6cm

8. Expand the brackets and simplify:

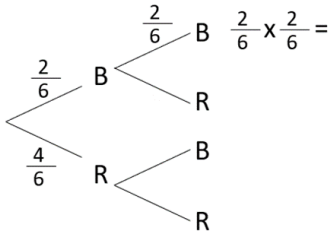
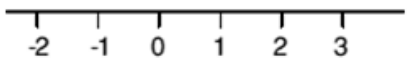
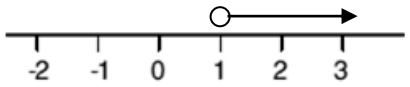
$2(3p + 3) + 4(q+ p)$

9. Fill in the blanks in the bracket:

$2P^2 + 4p = 2p($ ____ + ____ $)$

10. Find the value of P when **x = 2** and **y = -3:**

$P = 2x^2 – y + 3$

11. A 6 sided dice is rolled. What is the probability of rolling a prime number?	12. A bag contains 2 blue marbles and 4 red marbles. One marble is removed at random **then replaced**. Another marble is then removed. Complete the probability tree. 
13. Based on the fair spinner shown. Impossible, Unlikely, Even, Likely, Certain Which word best describes: The arrow landing on a 2 	14. James rolls a dice 10 times and gets five sixes. Is the dice biased? Explain your answer.
15. Draw a number line to represent this inequality $-1 < x < 2$  	16. Write the inequality shown on the number line 

17. Write the following numbers in ascending order. 0.410, 0.012, 0.066, 0.201, 0.62	18. Round 17288 to the nearest 1000
19. Write 2 equivalent fractions to $\frac{3}{8}$	20. Write these numbers in ascending order: 0.75 $\frac{5}{8}$ $\frac{9}{8}$ $\frac{3}{8}$ $\frac{3}{4}$

WWW	
EBI 1	
EBI 2	