

Revision Materials



Name _____ Class _____

1. Factorise the following to the fullest extent.

$$12x + 9$$

$$6xy - 15x$$

$$6x^2 - 8x$$

2. Expand and simplify the following.

$$4(x + 9)$$

$$3x(x - 7)$$

$$4(2x - 5y) + 3(4x + 2y)$$

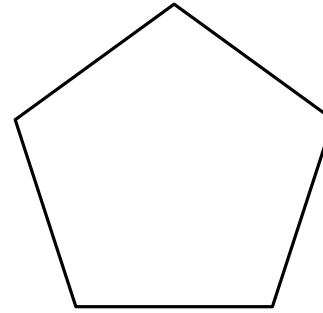


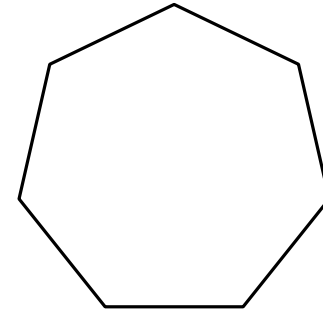
3 marks

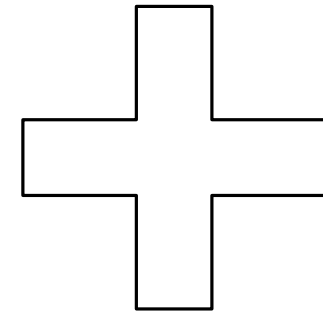


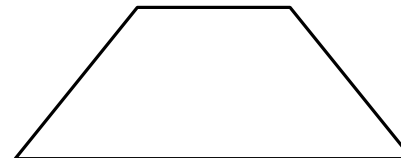
4 marks

3. Find the sum of the internal angles.





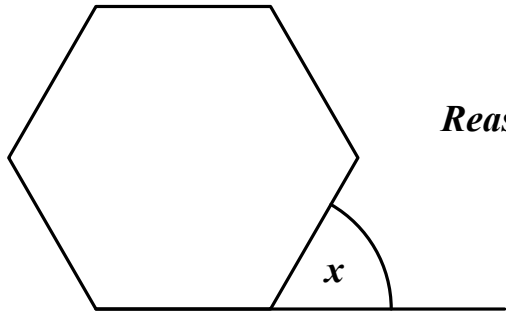






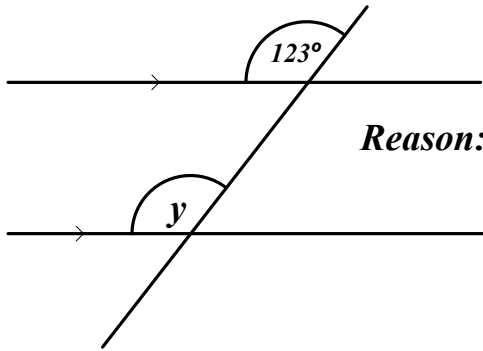
8 marks

4. Find the angles and state your justification.



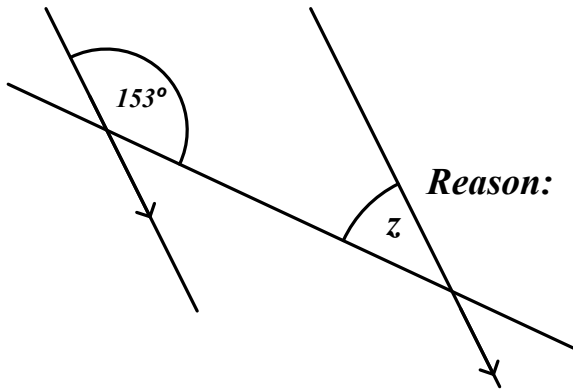
$x =$

Reason:



$y =$

Reason:



$z =$

Reason:



6 marks

5. The table below shows the scores of some contestants in an online game.

Score	Frequency
12	17
13	13
14	14
15	13
16	7

How many people played the game?

What is the mode score?

What is the median score?

What is the mean score?

What is the range of the scores?



5 marks

6. Alison, Billy and Charlie share some sweets in the ratio 4:9:6. Alison gets 20 sweets. How much do the others get?

Billy _____

Charlie _____

2 marks

7. The ages of David, Ella and Fred can be written as a ratio 7:9:12. If the total of their ages is 56 years, how old is each person?

David _____

Ella _____

Fred _____

3 marks

8. Gareth, Harry and Iona were paid last week. They were paid in the ratio 6:11:10. Harry was paid £75 more than Gareth. How much was each person paid?

Gareth _____

Harry _____

Iona _____

3 marks

9. The exchange rate for the UK and Australia is GBP £1 : AU\$ 1.9

How many AU\$ would you get for £600?

AU\$ _____

How many GBP would you get for AU\$1500?

GBP _____

2 marks

10. The exchange rate between the Singapore dollar and the Norwegian Krone is \$1:7.88Kr

How many Singapore dollars would you get for 1200 Kr?

Sing \$ _____

How many Kr would you get for Sing \$25?

Norwegian Kr _____

2 marks

11. Billy starts with £300. He invests wisely and his money appreciates by 12%. Then, there is a crash and his money goes down by 12%. How much money has he now?

Billy has _____

3 marks



12. Tilly bought a car for £12,500 + 20% VAT. How much did Tilly's car actually cost her?

Tilly's Car Cost _____

2 marks

13. At a Leeds United game, there were 23580 supporters of which 72% were home supporters. How many supporters were away supporters?

Away Supporters _____

2 marks

14. British Airways were having a sale for flights. All flights were reduced by 15%. If the flight to Australia now cost £1450, what was the original price?

Flight Price £ _____

2 marks

14. Hayley saved £8,500. She put it in a bank account that paid a rate of 4.9% interest per annum. Assuming that she did not withdraw any money, how much would she have in her account after seven years?

Total Amount £ _____

3 marks



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TOTAL