Revision Materials



Name Class

1. Factorise the following to the fullest extent.

$$12x + 9$$
 $3(4x + 3)$

$$6xy - 15x$$
 $3x(2y - 5)$

$$6x^2 - 8x$$
 $2x(3x - 4)$

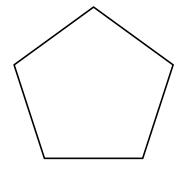
2. Expand and simplify the following.

$$4(x + 9)$$
 $4x + 36$

$$3x(x-7)$$
 $3x^2 - 21x$

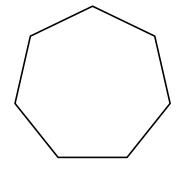
$$4(2x - 5y) + 3(4x + 2y)$$
 8x - 20y + 12x + 6y = 20x - 14y

3. Find the sum of the internal angles.

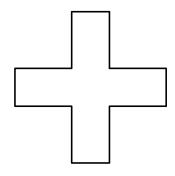


180(5-2) = 540

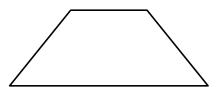




180(7-2) = 900



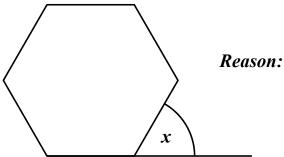
180(12-2)=1800



180(4-2)=360

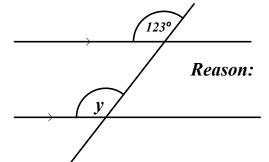


4. Find the angles and state your justification.



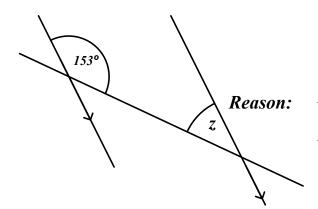
$$x = 60$$

Exterior angles 360/6



$$y = 123$$

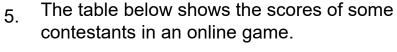
Corresponding angles are equal



$$z = 27$$

Co-interior angles total

180 degrees



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

How many people played the game?

64 (add the frequencies)

What is the mode score?

12 (score with the highest frequency)

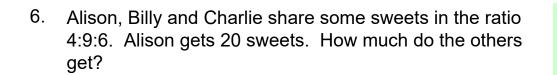
What is the median score?

14 (score with the middle number ie 32nd number)

What is the mean score?

13.6875 (multiply each score by its frequency, add them together and divide by 64) What is the range of the scores?





Billy	45	
Charlie	30	

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?

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?

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 £789.47	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 \$ 152.28		
	How many Kr would you get for Sing \$25?		
	Norwegian Kr 197	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?		2 marks	
	300 x 1.12 = 336		
	336 x 0.88 =		



achildsguideto

295.68 Billy has

3 marks

