- (b) Write one of these symbols >, < or = to make each statement true.

[2]

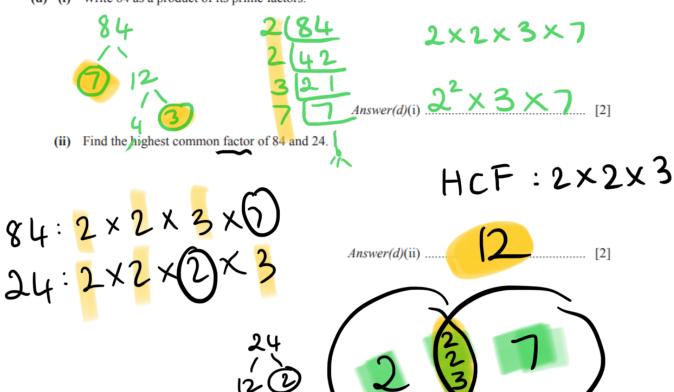
[2]

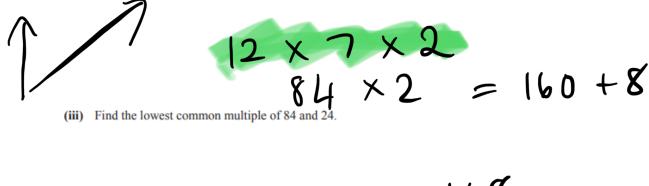
(c) Put one pair of brackets in each statement to make it true.

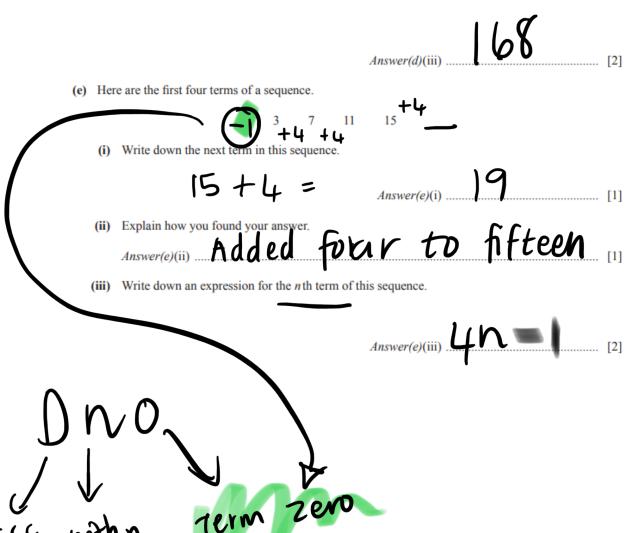
(i) 
$$(16 + 8) \div 4 - 2 = 4$$
 [1]

(ii) 
$$16 + 8 \div (4 - 2) = 20$$
 [1]

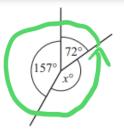
(d) (i) Write 84 as a product of its prime factors.





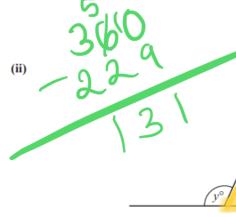


## Circle 360°

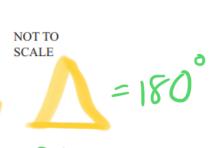


NOT TO SCALE

Work out the value of x.



 $Answer(c)(i) x = \dots \qquad [1]$ 



Work out the value of y.

180 - 103 =77

[2]

$$Answer(c)(ii) y = \dots$$
 [2

4 The ages of 15 children who go to a swimming club are shown below.

(a) Complete the frequency table.

You may use the tally column to help you.

	Age	Tally	Frequency	
	10	111	3	7-8
1	- 11	444	5	750
1	12	444 1	6	
	13			

 $(10 \times 3) + (11 \times 5) + (12) = 15$ 

$$30 + 55 + 72 + 13$$
  
 $85 + 85 = 170$ 

ì	(h)	For th	ne ages	of th	e 15	children,	find
١	D)	roru	ie ages	or m	10 13	children,	HILL

(i) the range,

Answer(b)(i) ..

(ii) the mode,

(iii) the median,

$$\frac{n+1}{2} = \frac{15+1}{2} = \frac{15}{3} = 8^{+1}$$

(iv) the mean.

$$\frac{170}{15} = 11.333_{Answer(b)(iv)} = 11.3$$

(d) One of Simon's presents is a bag of sweets.

He decides to eat the sweets in a sequence.

On day 1 he eats 1 sweet, on day 2 he eats 5 sweets, on day 3 he eats 9 sweets and so on.

(i) Describe in words the rule for continuing the sequence, 5, 9, 13, 17



Answer(d)(i) ...... (ii) Write down an expression for the number of sweets he eats on day n.