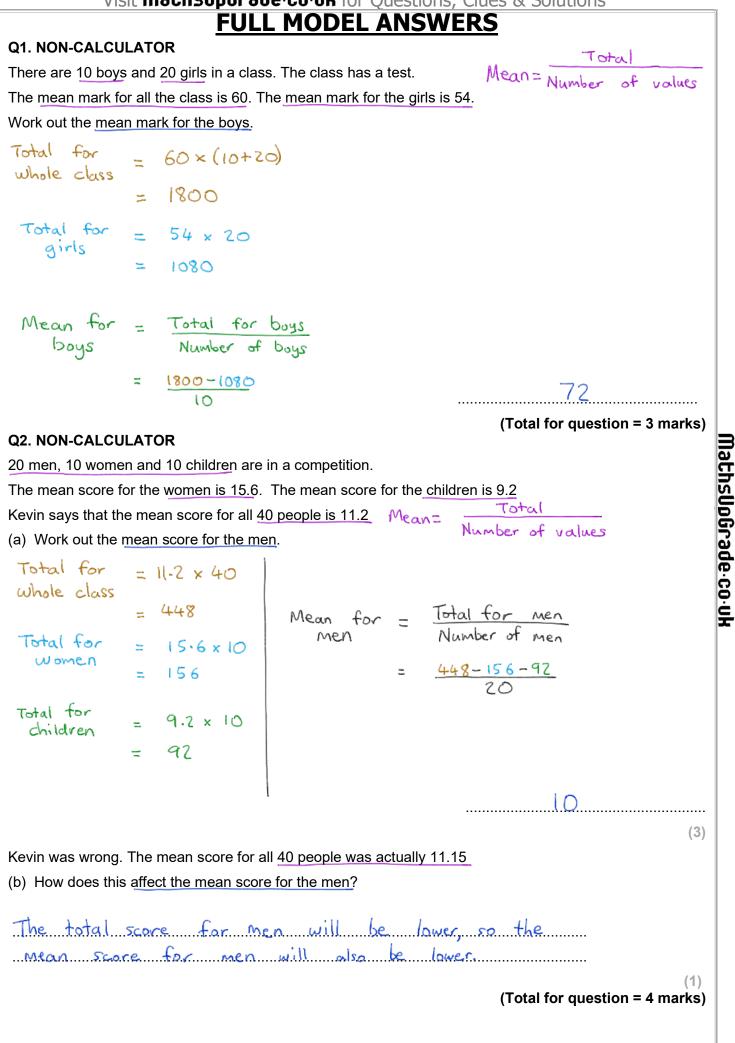
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Q3. NON-CALCULATOR

Mr Brown gives his class a test.

The 10 girls in the class get a mean mark of 70%. The 15 boys in the class get a mean mark of 80%

Nick says that because the mean of 70 and 80 is 75 then the mean mark for the whole class in the test is 75%

Nick is not correct. Is the correct mean mark less than or greater than 75%? You must justify your answer.

The mean will be greater than 75% since there are more boys and their mean is higher than 7.5%.

Q4. NON-CALCULATOR

(Total for question = 2 marks)

4 red bricks have a mean weight of 5 kg. 5 blue bricks have a mean weight of 9 kg. 1 green brick has a weight of 6 kg. Mean = Number of values

Donna says, "The mean weight of the 10 bricks is less than 7 kg."

Is Donna correct? You must show how you get your answer.

Total weight 4 x 5 Mean of = Total weight of all Number of bricks of red bricks all bricks 20 10 Total weight of blue bricks 7.1 kg 45 Donna is wrong.

Q5. NON-CALCULATOR

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Walkden Reds is a basketball team.

(Total for question = 3 marks)

Total Number of values Mean=

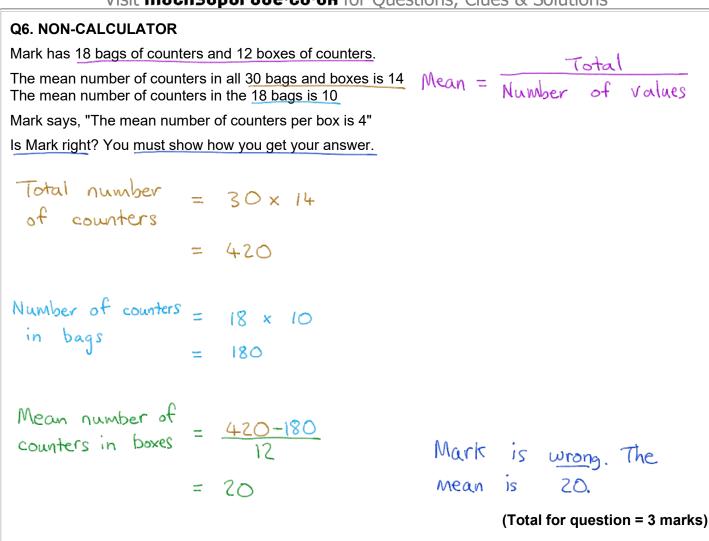
At the end of 11 games, their mean score was 33 points per game. At the end of 10 games, their mean score was 2 points higher.

Jordan says, "Walkden Reds must have scored 13 points in their 11th game."

Is Jordan right? You must show how you get your answer.

Total points after 11 games Total points after 10 games = 33 x 11 Points in = 363 - 350final game = 13 363 $= 35 \times 10$ 350 is correct. (Total for question is 3 marks)

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Q7. (CALCU	JLATO	R ALL	OWED)
The r 10	nanag 10	er of a	clothe	s shop	recorded the size of each dress sold one morning.
12	12				
14	14	14	14	14	14
16	16	16	16		
18	18	18			
20	20	20			
					s even numbers. old that morning is 15.3
The I	nanag	er says	s, "The	mean	size of the dresses is not a very useful average."
(i) Explain why the manager is right.					
Dro	<u>ess es</u>	ar	۹۵	ot	vailable in size "15.3".
					Laverage for the manager to know, the median or the mode? your answer. Modian = 15
	Ju mus	st give	aleas		your answer. Median = 15
Th	e. 1	Mode	1.5	+	he most useful average since
the median will give an odd number size,					
which can't be ordered					

(Total for question is 2 marks)

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