

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION  
Department of Curriculum Management  
Educational Assessment Unit  
High 5 – Junior Mathematicians Challenge Qualifier – 2017

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**MARKING SCHEME**

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**SECTION A**

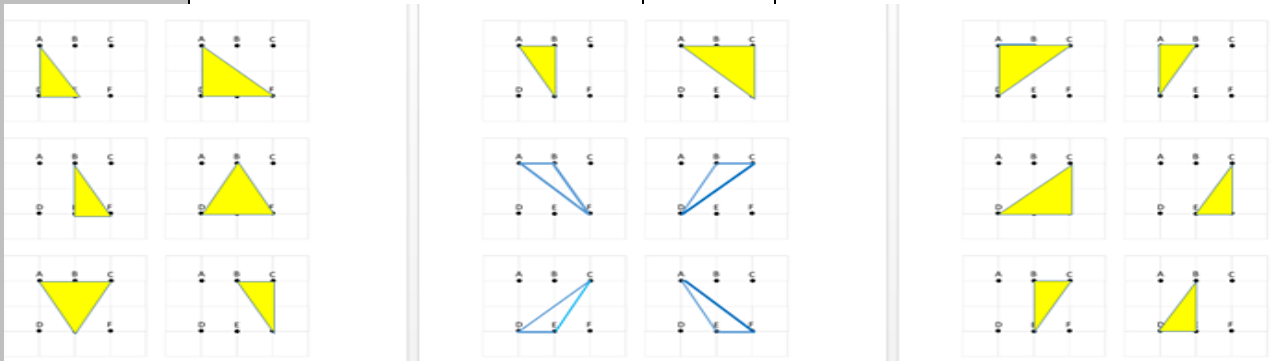
**(2 marks each c.a.o.)**

1.	(a) 5
2.	(a) 65 800
3.	(d) 72
4.	(d) The sum of three odd numbers is an odd number.
5.	(d) 9
6.	(d) 191
7.	Total of row and total of column are equal
8.	(b) 25
9.	(a) 1 kg
10.	(c) 14 years
11.	(c) 3050 millimetres
12.	(b) 4:40 a.m.
13.	(c) Thursday
14.	(a) 180 cm
15.	(a) 44 cm
16.	(b) Bertha
17.	(c) East
18.	(c) 990 000 tourists
19.	(b) 5 cent

SECTION B

(3 marks each c.a.o.)

Question No.	Answers and Requirements	Marks	Additional Guidance
20.	22 water bottles	3	c.a.o. Award 1 mark if 18 bottles / $510\text{ c} \times 3$ / equivalent is seen.
21.	20	3	c.a.o. 7, 17, 27, 37, 47, 57, 67, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 87, 97 <b>Award 2 marks</b> if all the above numbers are written but candidate misses on one digit <b>Award 1 mark</b> if all the above numbers are written, except for 1 number... e.g. if 70 is missing <b>Do not award marks</b> if a whole set of numbers is missing e.g. if numbers from 70 – 79 are missing
22	18 triangles	3	c.a.o. <b>Award 1 mark</b> if working is shown and answer is 3 triangles to 11 triangles) <b>Award 2 marks</b> if working is shown and answer is 12 triangles to 17 triangles.



23	30 questions	3	<p>c.a.o.</p> <p>Award 1 mark if valid attempt similar to the one below (in part) is seen</p> <p><math>42 + 6 = 48</math></p> <p><math>48 \div 2 = 24</math></p> <p><math>24 + 6 = 30</math></p> <p><b>Do not award marks</b> for <math>42 \div 2 = 21</math> and then <math>21 + 6</math></p>

**Legend to Marking Scheme:**

**c.a.o.** correct answer only

### Other guidelines:

1. No mark in the marking scheme is sub-divisible.
2. A correct answer scores full marks, even if no working is shown.
3. Incorrect answers – even though nearly correct – score no marks but marks are awarded for correct working.
4. No marks are awarded when a wrong method leads to a correct answer.
5. Incorrect working or statement following a correct answer is ignored.
6. An answer or working that is crossed out and not replaced, is marked as if it was not crossed out. If the answer or working is **replaced**, then the crossed out answer or working should **not** be considered in your marking.
7. If a correct answer is copied incorrectly from the working area to the answer area, then the marks are awarded fully.
8. In the case of misreading, f.t. may be applied and only the final accuracy mark is lost. The method marks may still be earned provided that the misreading doesn't oversimplify the question.