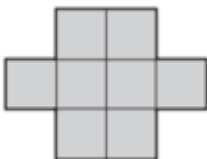


DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION
Directorate for Learning and Assessment Programmes
Educational Assessment Unit
High 5 – Junior Mathematicians Challenge Qualifier – 2021

MARKING SCHEME

SECTION A		(2 marks each c.a.o.)
1.	(c) 735	
2.	(b) Circle	
3.	(c) 13	
4.	(b) 3	
5.	(c) 2:00 p.m.	
6.	(c) 4	
7.	(d) 24 cm	
8.	(c) 	
9.	(a) 10 years	
10.	(b) 135°	
11.	(b) 29	
12.	(d) $\frac{1}{2}$ of $\frac{1}{3}$	
13.	(d) 46	
14.	(d) 1 000 000 m ²	
15.	(c) 5050	
16.	(a) $\frac{1}{16}$	
17.	(b) 1800 seconds	
18.	(b) Tuesday	
19.	(b) 12 pens	

SECTION B**(3 marks each c.a.o.)****711**

Possible Working:

Digits 1, 2 and 3 should be placed anywhere in the hundreds column.

Digits 0, 4 and 5 should be placed anywhere in the tens column.

20. Digits 6, 7 and 8 should be placed anywhere in the units column.

One Third or $\frac{1}{3}$

Possible Working:

Max and Kim each have 1 whole.

Kim give $\frac{1}{2}$ of her marbles to Max.Max now has $1\frac{1}{2}$ marbles.

Max



21. Kim

10 girls

Possible Working:

Each child brought 2 balloons each.

They all brought 48 balloons in total, plus another 20 which belonged to the girls (2 more balloons).

22. Since each girl has 2 more balloons than the boy, $20 \text{ balloons} \div 2 = 10 \text{ girls}$ 23. **8 small cubes**

<p>Possible Working:</p> <p>The total number of cubes is 27.</p> <p>There are 9 cubes on top row, 4 of which are not visible;</p> <p>There are 9 cubes in the middle row, 4 of which are not visible;</p> <p>There are 9 cubes on the bottom row, all of which are visible.</p> <p>Therefore, there are 8 cubes that are not visible.</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.
4. No marks are awarded when a wrong method leads to a correct answer.
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.