Conquesta 2014

(International Multiple Choice Primary School Olympiads – Est. 1998)
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Mathematics 2 – Grade 6

Welcome to your Conquesta Olympiad. When you have decided which of the answers is correct, scratch out the letter in the matching square on your answer sheet using **ONLY** a **black or blue ballpoint or black khoki pen**. *(Do not use pencils, crayons, pencil crayons, highlighters, tippex or glue.)* If the answer to question 4 is c, then scratch out the letter c in the square containing c next to the number 4 *(see example 1 below)*. If you've made a mistake and b should have been the answer, neatly cross out the mistake and then scratch out b *(see example 2 below)*.

Example 1:-

4.	a	b		d

Example 2:-

4.	a			d

*Useful tip:– When you have number sentences using different operations, apply the rule of **BODMAS**, which is the order of operations:– Firstly, calculate whatever is in Brackets, then Other (of, square roots, power of, etc), then Division and Multiplication (from left to right as they rank equally), and lastly, Addition and Subtraction (also from left to right).*

Did you know?

- *Dividend ÷ divisor = quotient.*
- *Multiplier x multiplicand = product.*
- *The difference is the answer to a subtraction.*
- *The sum is the answer to an addition.*
- *An inverse operation reverses the effect of another operation (does the opposite), eg, addition and subtraction are inverse operations; multiplication and division are inverse operations.*
- *Less < (points to the left) and More > (points to the right).*

1. 10 is one more than half this number.

(a) 4½ (b) 9 (c) 18 (d) 11

2. Choose the correct equation.

The quotient of twenty-one and a number is three.

(a) $21 + n = 3$ (b) $n + 3 = 21$

(c) $\frac{21}{n} = 3$ (d) $\frac{n}{3} = 21$

3. There are 190 guests at a wedding. What is the least number of circular tables needed to seat all the guests if each table seats exactly 8 people?

(a) 22 (b) 23 (c) 24 (d) 25

4. An otter has over 1 000 000 hairs per square inch on its back. Which of the following equals 1 000 000?

(a) 10^5 (b) 10^6 (c) 10^7 (d) 10^8

Les thinks of a number.
He adds 3 to the number,
then multiplies the answer by 4.
He then subtracts 12.
His final answer is 60.

5. What is the number that Les first thought of?

(a) 24 (b) 12 (c) 18 (d) 15

6. In the number 957 346 …?... must be subtracted from the value of the nine to equal the value of the four.

(a) 899 040 (b) 899 960

(c) 899 460 (d) 900 960

7. What is the inverse operation for the calculation in 3 104 ÷ 16?

(a) + (b) - (c) x (d) ÷

8. Give the symbol for 'less than' in:

29 943 is less than 678 101

(a) > (b) < (c) ≈ (d) ♯

9. Which is the correct open number sentence for:

By how much must 146 391 be decreased to be equal to the sum of 3 891; 47 623 and 3 984?
(Remember the Bodmas rule)

(a) 146 391 - 3 891 + 47 623 + 3 984

(b) (3 891 + 47 623 + 3 984) - 146 391

(c) 146 391 - 3 891 - 47 623 + 3 984

(d) 146 391 - (3 891 + 47 623 + 3 984)

10. Which number is the divisor in 1 289 ÷ 13?

(a) the answer (b) 1 289

(c) 13 (d) neither a nor b, nor c

11. In 65 x 350, what do we call 350?

(a) multiplier (b) product

(c) multiplicand (d) neither a nor b, nor c

12. Which term is the odd one out?

(a) difference (b) subtract

(c) product (d) decrease

13. What should the open number sentence be for:

What is the difference between the sum of 3 641 and 29 134 and the product of 49 and 778?
(Remember the Bodmas rule)

(a) (3 641 + 29 134) - 778 ÷ 49

(b) (778 x 49) + (3 641 + 29 134)

(c) (3 641 + 29 134) + 778 x 49

(d) 778 x 49 - (3 641 + 29 134)