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Conquesta 2014

(International Multiple Choice Primary School Olympiads – Est. 1998)
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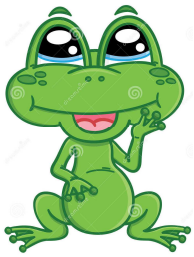


Mathematics 1 – Grade 5

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).*

1. What is the value of the underlined digit?

79 602 117

(a) 900 000 (b) 1 million
(c) 9 million (d) 900 thousand

2. What is ……

2 + 900 + 3000 + 50 000 = …… ?

(a) 50 392 (b) 53 902
(c) 52 920 (d) 53 920

3. Find the missing number.

? + 20 = 4 010

(a) 3 090 (b) 3 980 (c) 3 080 (d) 3 990

4. Which number, when rounded off to the nearest hundred, gives 43 300?

(a) 42 935 (b) 43 249
(c) 43 294 (d) 43 408

5. How should eight ones, nine thousands, two hundred thousands, four hundreds and five tens be written as a number?

(a) 89 245 (b) 209 458
(c) 259 408 (d) 892 450

Did you know?

- ***Ratio** is how much of one thing there is compared to another thing.*
- *The **mean** of a list of numbers is the average (the total amount divided by how many numbers there are).*
- *The **median** is the middle number in a list of numbers which have been sorted into order from smallest to biggest.*
- *The **mode** is the most popular number or thing.*
- *The **range** is the difference between highest and lowest value in a range of numbers.*
- *A **factor** is a number that divides exactly into another whole number, Eg, the factors of 12 are 1, 12, 2, 6, 3, 4 because they all divide exactly into 12.*
- *A **prime number** has only 2 factors and can be divided by 1 and itself. Eg. 3 is a prime number because it only has 2 factors, 1 and 3.*
- *A **composite number** has more than 2 factors.*
- *Dividend ÷ divisor = quotient. Sum is the answer to an addition. Product is the answer to a multiplication. Difference is the answer to a subtraction.*
- *8^4 means 8 to the power of 4, or 8 multiplied by itself 4 times. Eg., $8^4 = 8 \times 8 \times 8 \times 8 = 4\,096$.*

6. Calculate:-

488 ÷ 23 = ……

(a) 24 rem 8 (b) 21 rem 5
(c) 20 rem 8 (d) 20 rem 5

7. Find the equivalent:-

5^3 = ……

(a) 5 x 5 x 5 (b) 5 + 5 + 5
(c) 3 x 3 x 3 x 3 x 3 (d) 3 + 3 + 3 + 3 + 3

8. What is the mean (average) of the following set of numbers?

21, 33, 61, 52, 48, 21, 58

(a) 21 (b) 40 (c) 42 (d) 48

9. Suzie estimates 170, 374 and 260 to the nearest 100's. Then she estimates the sum of these to the nearest 100. What should her estimated answer to this sum be?

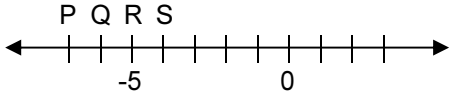
(a) 1100 (b) 1000 (c) 800 (d) 900

10. Identify the prime numbers in the table below and give their total. *(Write them down on the right hand side of the table, then add them together.)*

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

(a) 58 (b) 70 (c) 75 (d) 77

11. Which letter on the number line best identifies minus six?



(a) P (b) Q (c) R (d) S

12. Calculate:

3 + 7 x (5 + 1) ÷ 3 - 2 = ……

(a) 11 (b) 13 (c) 15 (d) 18