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Conquesta 2014

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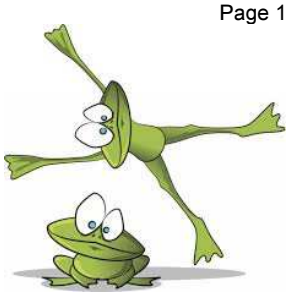

Mathematics 2 – Grade 7

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?

*The **square root** of a number is a value that can be multiplied by itself to give the original (square) number. A square root of 25 is 5, because when 5 is multiplied by itself, you get 25…. Its like saying, "What can I multiply by itself to get this?". To remember, think of the root of a tree…"I know the tree, but what is the root that produced it?". In this case, the tree is "25" and the root is "5". Therefore, it would be written: $\sqrt{25} = 5$ and you would say, **"the square root of 25 = 5"**.*

If you're asked to work out $7\sqrt{36}$ = ….., you would first work out the square root of 36 and then multiply the square root by 7.

*The **power of** (or **exponent** of) a number shows you how many times to multiply the number by itself. It is written as a small number to the right and above the base number, eg., 8^2 (eight to the power of two – 8 is the base number and the little ^{2} is the power or exponent). You use the base number twice, so $8^2 = 8 \times 8 = 64$.*

Adding negative numbers – simply add them together and keep the negative sign for your answer, eg., -3 + -5 = -8.

1. Two million, eight hundred and forty-six thousand, five hundred and seventy-two can be written as ……

(a) 2 846 527 (b) 2 864 527
(c) 2 864 572 (d) 2 846 572

2. What is 10 000 more than 291 403?

(a) 391 403 (b) 292 403
(c) 310 403 (d) 301 403

3. What is 100 less than 100 009?

(a) 99 099 (b) 99 090
(c) 99 909 (d) 99 990

4. 720 ÷ 20 = …… x 3

(a) 12 (b) 24 (c) 36 (d) 360

5. Which operation will change the value of any non-zero number?

(a) adding zero (b) multiplying by zero
(c) multiplying by one (d) dividing by one

6. $\sqrt{225}$ = ……

(a) 15 (b) 25 (c) 35 (d) 45

7. Calculate the following and match your answer to the given options:-

$$\frac{3^5}{3^2} = \text{……..}$$

(a) 5 (b) 8 (c) 3^5 (d) 3^3

8. 44 + 25 ÷ 5 - 3 = …… *(Apply the BODMAS rule.)*

(a) 48 (b) 10,8 (c) 46 (d) 34,5

9. -12 + -1 = ……

(a) +13 (b) 10 (c) -13 (d) -11

10. What is seventeen units to the right of -6 on a number line?

(a) -23 (b) +11 (c) -11 (d) +23

11. 0 x -9 = ……

(a) -9 (b) +9 (c) 0 (d) -0

12. 30 sms's in 15 hours = …… sms's in 3 hours.

(a) 5 (b) 10 (c) 15 (d) 6

13. The decimal number 833,000 is the same as ……

(a) 8,33 x 10^2 (b) 8,33 x 10^3
(c) 8,33 x 10^6 (d) 8,33 x 10^4

14. If A = 8, B = 17, C = 10, D = 6 and E = 5, write the answer to the sum below as a letter:-
(Apply the Bodmas rule.)

B + D - A + C ÷ E = ……

(a) A (b) B (c) C (d) D

15. If x = 100, then $4\sqrt{x}$ = ……

(a) 20 (b) 40 (c) 100 (d) 200

16. If x = 4 and y = 3, then $xy - 2x$ = ……

(a) 4 (b) 6 (c) 19 (d) 12

17. What is the value of x ?

$$\frac{x}{12} + 8 = 10$$

(a) 8 (b) 24 (c) 72 (d) 126