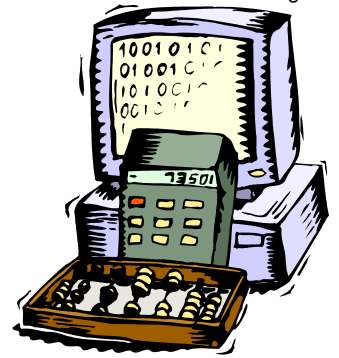




Conquesta 2008

(International Multiple Choice School Olympiads – Est. 1998)
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Mathematics 2 – Year 7

Welcome to your Conquesta Olympiad. As you read and answer the questions, we hope that you enjoy and learn from the information. Once you have read the information and the questions carefully, you have to make a choice. When you have decided which of the answers is correct, completely fill in the matching square on your answer sheet using a 2B or a B pencil. For example, if the answer to question 4 is c, then neatly fill in the square containing c next to the number 4. See example below. Fill in only one square per question and make sure you completely rub out any mistakes so that the answer is clear.

Example:-

<p>1. What is this number? All digits are different and odd. It is less than 70². The thousands digit is less than the tens digit. It is not divisible by 3.</p> <p>(a) 1 155 (b) 1 357 (c) 5 375 (d) 3 579</p>	<p>2. Sam's uncle gave him ten dollars on his first birthday. On each birthday after that he doubled his previous gift. By the day after Sam's eighth birthday, what was the total amount that his uncle had given him?</p> <p>(a) \$360 (b) \$255 (c) \$2 550 (d) \$36</p>	<p>3. If this pattern were to continue, which expression would most likely represent the area of the fifth figure?</p> <p>(a) $4a \times 5b$ (b) $2(5a) + 2(5b)$ (c) $5a \times 5b$ (d) $5a + 5b$</p>	
<p>4. A spinner is divided into equal parts. Five parts are red, and three parts are green. What is the probability of spinning green?</p> <p>(a) $\frac{5}{3}$ (b) $\frac{5}{8}$ (c) $\frac{3}{5}$ (d) $\frac{3}{8}$</p>	<p>5.</p> <p>B = ...?... D</p> <p>(a) 9 (b) 6 (c) 3 (d) 2</p>	<p>6. Name this figure:-</p> <p>(a) Ray AV (b) Ray VA (c) Line segment AV (d) Line VA</p>	<p>7. Calculate:-</p> <p>-5 + -15 = ?</p> <p>(a) -10 (b) -20 (c) 10 (d) 20</p>
<p>8. If $x = 3$, what does ...?... represent?</p> <p>$2x^2 - \dots? \dots = 8$</p> <p>(a) 1 (b) 4 (c) 28 (d) 10</p>	<p>Match the following:</p> <p><u>Formulas:</u></p> <p>(a) $\frac{1}{2}$ base x height (b) $4\pi \times r^2$ (c) $\pi \times$ diameter (d) length x breadth x height</p> <p>$\pi = 3.14$</p> <p>9. Surface area of a ball. 10. Area of a yield sign. 11. Circumference of a ring. 12. Volume of a shoebox.</p>	<p>13. When 3.421 is multiplied by 0.01 the decimal point moves</p> <p>(a) one place to the left, because you are multiplying by tenths. (b) one place to the right, because you are multiplying by ten. (c) two places to the left, because you are multiplying by hundredths. (d) two places to the right, because you are multiplying by one hundred.</p>	

14. Which graph correctly plots the ordered pair (5, -6) ?

<p>(a)</p>	<p>(b)</p>	<p>(c)</p>	<p>(d)</p>
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