

## Question # 1

$$\text{If } 800,670 = 8 \times 10^x + 6 \times 10^y + 7 \times 10^z$$

where  $x$ ,  $y$  and  $z$  are whole numbers, what is  $x + y + z$ ?

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Question # 2

What is the sum of the digits of all positive prime numbers less than 20?

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Question # 3

What is the reciprocal of  $\left(\frac{1}{2} + \frac{1}{3}\right)$ ?

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2007 BCCTM CONTEST

*MATS*  
GRADE 6  
(*Grade 5*)

Team Questions

Question # 4

How many integers between 64 and 76 are prime?

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Question # 5

Find the sum of the additive inverse and the reciprocal of  $1\frac{1}{5}$ .

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Question # 6

$$\text{If } x = \frac{x+x+x+x+x}{x}, \text{ then } x = ?$$

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Question # 7

If  $a \otimes b = a + b + \frac{ab}{10}$ , what is  $(-5 \otimes 2) \otimes 4$ ?

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Question # 7

If  $a \otimes b = a + b + \frac{ab}{10}$ , what is  $(-5 \otimes 2) \otimes 4$ ?

## Question # 8

Alison was supposed to multiply a number by 5. By mistake, she divided the number by 5 instead. Alison's answer was 5. What was the correct answer?

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