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Devi Balika Vidyalaya - Colombo

පළමු වාර පරීක්ෂණය - 2012
First Term Test - 2012
Mathematics

Grade 9

1½ hour

Name :

Index No. :

* Answer all the questions in the given paper itself.

01) i) Write 2000 in scientific notation

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ii) Write 4.1×10^5 in general form.

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02) When a number rounded off to the nearest 10 the value received is 70. Write down the maximum and minimum values that number can be obtained.

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03) Round off 5678 to the nearest 100 and 1000 separately

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04) i) Write 0.1666 in scientific notation and round off 0.1666 to the nearest 2nd decimal place.

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05) Simplify $5 - \frac{1}{2} \times \frac{1}{4}$

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06) The general term of a number pattern is $5 - n$. Find the first two terms of it

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07) Write the next term and the common term of the number pattern 15, 18, 21,

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08) Find the value of $78^2 - 22^2$ using the knowledge of factors.

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09) $\frac{5}{8}$ of the students of a mixed school are boys. If 18 are girls, find the total number of students in the school.

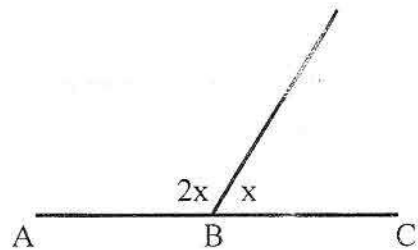
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10) 50 king coconuts were bought at Rs. 15/- each. Out of those 40 were sold at Rs. 25/- each. Find the percentage of profit or loss.

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11) ABC is a straight line.
Find the value of x .

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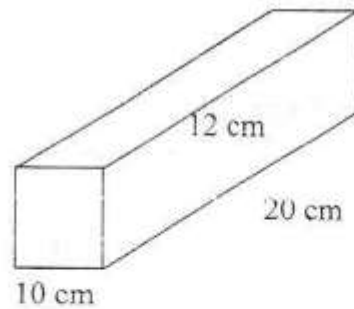


12) Simplify $(x + 5)(2x - 3)$

13) Write the general term of triangular numbers and write the 11th triangular number.

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- 14) The internal measurements of this vessel are given.
Find the capacity of the vessel in litres.



- 15) Sanath gives 20% discount when selling an article. The marked price of which is Rs. 250.
Find the selling price after giving the discount.

- 16) Find the
- i) Next term
 - ii) Common term of the number pattern - 14, -10, -6

- 17) Find the value of $3ab + 7$ when $a = 3$, $b = -2$

- 18) Factorise $14x^2y - 7x^2ya$

- 19) Sena would be paid 3% of the sale as commission. By selling the land for Rs. 18000/- find the commission.

- 20) Round off 12.625

- i) to the nearest whole number
- ii) to the first decimal place.