

# 1. NON-CALCULATOR TEST

1. Round 20.8046 to 2 decimal places.

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2. Find 4.5% of 800.

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3. Evaluate  $\sqrt{48 - (11 + 48 \div 3)}$ .

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4. A shop is having a sale with 15% discount. What will be the saving on a digital camera originally priced at \$420?

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5. A prism has a cross-sectional area of  $30 \text{ m}^2$  and a height of 5 m. Find its volume.

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6. Simplify  $\frac{6+2}{2} + \frac{6+4}{6}$ .

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7. There are 5 assessment tests for the course that Gertrude is taking this year. Each test is out of 100. After doing 4 of them, her average was 76. She did really well in the last test and her average went up to 80. What mark did she get on the last test?

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8. Simplify  $\frac{36 \times 25 \times 55}{22 \times 15 \times 18}$ .

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9. Evaluate  $18 \times 998 + 2 \times 18$ .

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10. Consider the pattern

$$5^3 - 4^3 = 5^2 + 5 \times 4 + 4^2 = 61$$

$$6^3 - 5^3 = 6^2 + 6 \times 5 + 5^2 = 91$$

$$7^3 - 6^3 = 7^2 + 7 \times 6 + 6^2 = 127$$

Using this pattern, complete:

$$10^3 - 9^3 = \underline{\quad} + \underline{\quad} \times \underline{\quad} + \underline{\quad} = 271$$

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11. When  $8.\square 57$  is rounded to 1 decimal place, the answer is 8.5. What number should be written in the  $\square$ ?

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9.  $1\frac{3}{5}$  pizzas are left over from a party. I put half of this in the freezer. What fraction of a pizza was put in the freezer?

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13. Evaluate  $30 \div 0.5$ .

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14. Herman was told to double a number and subtract 7. He subtracted the 7, THEN doubled. His wrong answer was 30. What was the right answer?

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15. Byron needs \$1812 for his fare to Europe. This will be  $\frac{4}{7}$  of his bank balance. What is the full amount in his bank account?

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16. The scale on a map is 1 : 300 000. How far is it from Tower Hill to Marbon in kilometres if they are 20 cm apart on the map?

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17. Evaluate  $101^2 - 99^2$ .

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18. If  $d\%$  of a pie has been eaten, what percentage of the pie remains?

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19. Evaluate  $\frac{1 - \frac{1}{2}}{1 + \frac{1}{2}}$ .

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20. If the price of a particular company on the stock-market fell by 20%, by what percentage must it now rise to return to its original price?

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