

1. NON-CALCULATOR TEST

1. Round 20.8046 to 2 decimal places.

2. Find 4.5% of 800.

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

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

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

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

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?

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

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

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:

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

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

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?

13. Evaluate $30 \div 0.5$.

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?

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?

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?

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

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

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

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?
