Percentage - 1

Career Launcher

QA - 01

Contents

- Multiplication with the help of Vedic Maths
- General method of multiplication
- Squaring / Cubing techniques

Number of questions : 35

1. 574628 × 11 = ?
2. 67 × 63 = ?
3. 64 × 86 = ?
4. 87 × 94 = ?
5. 104 × 112 = ?
6. 88 × 108 = ?
7. 106 × 145 = ?
8. 47 × 84 = ?
9. 68 × 46 = ?
10. 124 × 7 × 11 × 13 = ?
11. $(65)^2$ = ?
12. $(94)^2$ = ?
13. $(117)^2$ = ?
14. $(188)^2$ = ?
15. $(164)^2$ = ?
16. $(67)^2$ = ?
17. $(997)^2$ = ?
18. $(17)^3$ = ?
19. $(106)^3$ = ?
20. $(97)^3$ = ?

Direction for questions 21 to 27: Calculate the expression given in the questions.

21. $\frac{283}{1983}$

(1) 12.7% (2) 14.3% (3) 13.6%
(4) 15.1% (5) 14.15%

22. $\frac{1132}{1069}$

(1) 1.06 (2) 1.08 (3) 1.04
(4) 1.02 (5) 1.45

23. $\frac{783}{1869}$

(1) 43.2% (2) 42.4% (3) 37.2%
(4) 40.6% (5) 41.9%

24. $\frac{1234.5}{15.5}$

(1) 80.23 (2) 68.32 (3) 76.65
(4) 79.6 (5) 77.1

25. $\frac{12.71}{29.5}$

(1) 41.26% (2) 45.35% (3) 47.38%
(4) 43.08% (5) 45.75%

26. 68.5% of 6563
(1) 4432 (2) 4496 (3) 4538
(4) 4506 (5) 4786

27. $\frac{(1.6 \times 1.12)}{6.63}$
(1) 27.63% (2) 27.02% (3) 28.11%
(4) 26.53% (5) 27.43%

28. If a > b, which of the following two will be higher?
I. a% of b
II. b% of a

29. 64% of 62.5 = ?

30. If X = 37.5% of 20% of 48 and Y = 14.28% of 27.27% of 77, then
(a) X >Y (b) X = Y
(c) X < Y (d) X – Y = 1.4

31. Consider four-digit numbers for which the first two digits are equal and the last two digits are also equal. How many such numbers are perfect squares? **(CAT 2007)**
(1) 3 (2) 2
(3) 4 (4) 0
(5) 1

32. If $(XY)^2$ = BBY, where XY and BBY are two-digit and three-digit numbers respectively. How many values of 'XY' are possible?
(1) 1 (2) 2
(3) 3 (4) 4

33. The square of a number is a five-digit number with last two digits as '69'. How many such numbers are possible?
(1) 8 (2) 9
(3) 10 (4) 11

34. How many numbers less than 1000 are there such that the ten's digit of their square is odd?

35. An integer between 100,000 and 199,999 becomes three times as big when we move the 1 from the leftmost position to the rightmost position. Find the sum of the digits of the number.
(1) 22 (2) 24
(3) 27 (4) 28
(5) 29

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