

Ratio, Percentage, Profit & Loss Practice

30 Minutes – (Don't skip any questions)

- 1) The number of sweets with Pankaj and Karan are in the ratio 3: 4. The ratio of number of sweets with Karan and Rajan is 5: 2. How many sweets does Karan have if the total number of sweets is 258?
A. 120 B. 90 C. 150 D. 135 E. 70
- 2) If $x > 0$ and $\frac{x^2+4x-12}{4x-12} = \frac{x^2-8x+16}{16-8x}$ then the value of x is:
A. $4/3$ B. 2 C. $2/3$ D. 3 E. $7/3$
- 3) A sum of Rs 1300 is divided amongst A,B,C, & D such that $\frac{A's\ share}{B's\ share} = \frac{B's\ share}{C's\ share} = \frac{C's\ share}{D's\ share} = \frac{2}{3}$.
A's share is
A. 130 B. 160 C. 240 D. 320 E. None
- 4) In a mixture of 60 liters, the ratio of alcohol & water is 2: 1. If this ratio is to become 1: 2, then the quantity of water to be further added is
A. 20 B. 30 C. 40 D. 60 E. None
- 5) An amount of Rs 735 was divided between Ram, Shyam & Mohan. If each of them had received Rs 25 less, their shares would have been in the ratio of 1: 3: 2. The money received by Mohan was:
A. 195 B. 200 C. 225 D. 245 E. None
- 6) A sum of money is to be distributed among P, Q, R and S in the proportion of 5: 2: 4: 3. If R gets Rs 1000 more than S, what is Q's share?
A. 500 B. 1500 C. 2000 D. 1600 E. None
- 7) The ratio of first and second class fares between 2 stations is 4: 1. The ratio of the number of passengers traveling by first class to those traveling by second class is 1: 50. If the total fare collected is Rs 2700, what was the fare collected from the second class passengers?
A. 2500 B. 2000 C. 2200 D. 1800 E. None

- 8) What is the reciprocal of $\frac{25\% \text{ of } \frac{2}{3}}{6\% \text{ of } 15}$?
- A. $3/20$ B. $2/3$ C. $20/3$ D. $27/5$ E. $5/27$
- 9) A milk vendor receives 2 adulteration supplies S_1 and S_2 that contains 11% and 5% of water respectively. How much of each kind must be taken so as to form 66 *liters* of mixture containing 90% of milk?
- A. 24L, 42L B. 22L, 44L C. 50L, 16L D. 55L, 11L E. 36L, 30L
- 10) The price of tomatoes and potatoes is increased by 13% each. The price per pound of tomatoes has increased by \$1.43 and the price of potatoes is increased by \$0.91, then the difference between the price of tomatoes and potatoes is what fraction of value of potatoes?
- A. $3/5$ B. $4/9$ C. $5/8$ D. $3/8$ E. $4/7$
- 11) 75% of class answered the first question on a certain test correctly, 55% answered second question on test correctly and 20% answered neither of question correctly, what percent answered both correctly?
- A. 10 B. 20 C. 30 D. 50 E. 65
- 12) A particular television costs \$1000 at retail price. Salesman Horace offers 12% discount. Saleswoman Gretchen offers it for $\frac{7}{8}$ of the retail price. How much money is saved by not taking Horace's offer?
- A. \$ 0 B. \$ 5 C. \$ 10 D. \$ 25 E. \$ 50
- 13) Timothy, Ursula and Victoria each have 100 marbles. Timothy gives Sam $\frac{1}{50}$ of his marbles. Ursula and Victoria both give him 8% of their marbles. How many marbles did Sam receive in total?
- A. 10 B. 18 C. 24 D. 36 E. 56
- 14) Quantitative Comparison:

c is a positive number.

Quantity A	Quantity B
$\frac{3}{7}$ of c	41% of c

- A. $A > B$ B. $B > A$ C. $A = B$ D. Can't be determined

15) Quantitative Comparison:

x and y are positive numbers

Quantity A	Quantity B
19% of x	$\frac{0.5}{2.43}$ of y

- A. $A > B$ B. $B > A$ C. $A = B$ D. Can't be determined

16) What percent of 20 is 30?

- A. 150 B. 250 C. 300 D. 350 E. 600

17) Physics tells us that weights of objects on the moon are proportional to their weights on Earth.

Suppose a 180 *lb* man weighs 30 *lb* on the moon. What will a 60 *lb* boy weigh on the moon?

- A. 10 *lb* B. 15 *lb* C. 20 *lb* D. 25 *lb* E. 30 *lb*

18) A sample of 96 light bulbs consisted of 4 defective ones. Assume that today's batch of 6,000 light bulbs has the same proportion of defective bulbs as the sample. Determine the total number of defective bulbs made today. (Ignore the fact that the assumption of exact proportionality is highly unlikely)

- A. 150 B. 250 C. 300 D. 350 E. 600

19) It costs 90 *cents* for The Striped Toothpaste Company to make, package and ship a tube of toothpaste. The company also has "overhead costs" of \$5000 per month. The company sells (at wholesale) cartons of toothpaste at the price of \$2.50 per tube. This month, the company sold 5000 tubes of toothpaste. What is this month's profit?

- A. \$ 1500 B. \$ 2500 C. \$ 3000 D. \$ 3500 E. \$ 3600