MATHEMATICS

| Board – CBSE | Class – 8th | Topic – Comparing Quantities (Problems for practice) |

Q.1 The ratio 5: 4 expressed as a percent equal:

(A) 12.5%   (B) 40%

(C) 80%   (D) 125%

Q.2 3.5 can expressed in terms of percentage as:

(A) 0.35%   (B) 3.5%

(C) 35%   (D) 350%

Q.3 Half of 1 percent written as a decimal is:

(A) 0.005   (B) 0.05   (C) 0.02   (D) 0.2

Q.4 What is 15 percent of Rs. 34?

(A) Rs. 3.40   (B) Rs. 3.75

(C) Rs. 4.50   (D) Rs. 5.10

Q.5 63% of $3\frac{4}{7}$ is:

(A) 2.25   (B) 2.40   (C) 2.50   (D) 2.75

Q.6 88% of 370 + 24% of 210 –? = 118

(A) 256   (B) 258   (C) 268   (D) 358

Q.7 860% of 50 + 50% of 860 =?

(A) 430   (B) 516   (C) 860   (D) 960

Q.8 45% of 750 – 25% of 480 =?

(A) 216   (B) 217.50

(C) 236.50   (D) 245

Q.9 It costs Rs. 1 to photocopy a sheet of paper. However, 2% discount is allowed on all photocopies done after first 1000 sheets. How much will it cost to copy 5000 sheets of paper?

(A) Rs. 3920 (B) Rs. 3980

(C) Rs. 4900 (D) Rs. 4920

Q.10 A housewife saved Rs. 2.50 in buying an item on sale. If she spent Rs. 25 for the item, approximately how much percent she saved in the transaction?

(A) 8% (B) 9% (C) 10% (D) 11%

Q.11 How many litres of pure acid are there in 8 litres of a 20% solution?

(A) 1.4 (B) 1.5 (C) 1.6 (D) 2.4

Q.12 Amit can do a piece of work in 4 days and Sumit can do it in 6 days. How long will they take, if both Amit and Sumit work together?

Q.13 Kami, Karya and Kirti can together weave a carpet in 4 days. Kami by herself can weave the same sized carpet in 12 days and Kirti can do it in 10 days. How long will Karya take to do the work by herself?

Q.14 A can do a piece of work in 25 days and B can finish it in 20 days. They work together for 5 days and then A goes away. In how many days will B finish the remaining work?

Q.15 A and B can polish the floors of a building in 25 days, A alone can do $\frac{1}{3}$ of this job in 15 days. In how many ays can B alone polish the floors of the building?

Q.16 15 boys earn Rs 900 in 5 days, how much will 20 boys earn in 7 days?

Q.17 Rajeev buys goods worth Rs. 6650. He gets a rebate of 6% on it. After getting the rebate, he pays sales tax @ 10%. Find the amount he will have to pay for the goods.

(A) Rs. 6876.10 (B) Rs. 6999.20

(C) Rs. 6654 (D) Rs.7000

Q.18 Which one of the following shows the best percentage?

(A) $\dfrac{384}{540}$ (B) $\dfrac{425}{500}$ (C) $\dfrac{570}{700}$ (D) $\dfrac{480}{660}$

Q.19 5% of (25% of Rs. 1600) is -

(A) Rs. 5 (B) Rs. 17.50

(C) Rs. 20 (D) Rs. 25

Q.20 0.15% of $33\dfrac{1}{3}$% of Rs. 10,000 is -

(A) Rs. 0.05 (B) Rs. 5

(C) Rs. 105 (D) Rs. 150

Q.21 30% of 28% of 480 is the same as -

(A) 15% of 56% of 240 (B) 60% of 28% of 240

(C) 60% of 56% of 240 (D) None of these

Q.22 10000 workers were employed to construct a river bridge in four years. At the end of first year, 10% workers were retrenched. At the end of the second year, 5% of the workers at that time were retrenched. However, to complete the project in time, the number of workers was increased by 10% at the end of the third year. How many workers were working during the fourth year?

Q.23 A factory increased its production of three wheelers from 80000 in 1999 to 92610 in 2002. Find the annual rate of growth of production of three wheelers.

Q.24 Given that Carbon – $14(C_{14})$ decays at a constant rate in such a way that it reduces to 50% in 5568 years. Find the age of an old wooden piece in which the carbon is only 12.5% of the original.

Q.25 A new car costs Rs 360000. Its price depreciates at the rate of 10% a year during the first two years and at the rate of 20% a year thereafter. What will be the price of the car after 3 years?

Q.26 The value of a property increases every year at the rate of 5%. If its value at the end of 3 years be Rs 411540, what was its original value at the beginning of these years?

Q.27 Afridi purchased an old scooter for Rs 16000. If the cost of scooter after 2 years depreciates to Rs 14440, find the rate of depreciation.

Q.28 Find the compound interest on Rs 24000 at 15% per annum for $2\frac{1}{3}$ years.

Q.29 Find the principal, if the compound interest compounded annually at the rate of 10% per annum for three years is Rs 331.