

BHARAT SCHOOL OF BANKING

PERCENTAGE

Directions (1-5): What approximate value should come in place of question mark (?) in the following equation?

Q1. 32.05% of $259.99 = ?$

- (a) 92
- (b) 88
- (c) 78
- (d) 90
- (e) 83

Q2. 4.78% of $1255 + 3.24\%$ of $440 = 0.5\%$ of ?

- (a) 14260
- (b) 14492
- (c) 14636
- (d) 14849
- (e) 15002

Q3. 35.05% of $3365 + 8900 + 41.99 = ?$

- (a) 1350
- (b) 1390
- (c) 1430
- (d) 1480
- (e) 1530

Q4. $(385\%$ of $463) \div 179 = ?$

BHARAT SCHOOL OF BANKING

PERCENTAGE

- (a) 10
- (b) 16
- (c) 24
- (d) 30
- (e) 40

Q5. 84.04% of 1845 + 23.97% of 178.05 = ?

- (a) 1510
- (b) 1530
- (c) 1550
- (d) 1570
- (e) 1590

Q6. In a co-education school there are 15 more girls than boys. If the number of girls is increased by 10% and the number of boys is also increased by 16%, there would be nine more girls than boys. What is the number of students in the school?

- (a) 240
- (b) 225
- (c) 265
- (d) 245
- (e) None of these

Q7. The population of a city increases at the rate of 4% per annum. There is an additional annual increase of 1% in the population due to the influx of job seekers. Therefore, the % increase in the population after 2 years will be:

- (a) 10

BHARAT SCHOOL OF BANKING

PERCENTAGE

- (b) 10.25
- (c) 10.55
- (d) 10.75
- (e) None of these

Q8. In a factory, producing parts of an automobile, the parts manufactured on the shop floor are required to go through quality checks, each conducted after a specific part of the processing on the raw material is completed. Only parts that are not rejected at one stage are put through subsequent stages of production and testing. If average rejection rates at these three testing stages during a month are 10%, 5% and 2% respectively, then what is the effective rejection rate for the whole plant?

- (a) 17%
- (b) 15.20%
- (c) 84.80%
- (d) 16.21%
- (e) None of these

Q9. In a class, 40% of the boys is same as $\frac{1}{2}$ of the girls and there are 20 girls. Total number of students in the class is:

- (a) 70
- (b) 45
- (c) 35
- (d) 25
- (e) None of these

Q10. In a company, there are 75% skilled workers and remaining ones are unskilled. 80% of skilled workers and 20% of unskilled workers are permanent. If number of temporary workers is 126, then what is the number of total workers?

BHARAT SCHOOL OF BANKING

PERCENTAGE

- (a) 480
- (b) 510
- (c) 360
- (d) 377
- (e) None of these

Q.1)

Ans.(e)

$$\frac{32}{100} * 260 = 83.2 \approx 83$$

Q.2)

Ans.(d)

$$\frac{0.5 * ?}{100} = \frac{4.78 * 1255}{100} + \frac{3.24 * 440}{100} = 59.989 + 14.256$$

$$? = 74.245 * \frac{100}{0.5} = 14849$$

Q.3)

Ans.(b)

$$? = \frac{35 * 3365}{100} + \frac{8900}{42} \approx 1178 + 212 = 1390$$

Q.4)

Ans.(a)

$$? = \frac{1782.55}{179} = 9.958 \approx 10$$

Q.5)

BHARAT SCHOOL OF BANKING

PERCENTAGE

Ans.(e)

$$? = \frac{84+1845}{100} + \frac{24+178}{100}$$

$$= 1549.8 + 42.72 = 1592.52 \approx 1590$$

Q.6)

Ans.(c)

Let the number of boys be x .

Then, the number of girls = $(x + 15)$

New number of girls = $(x + 15) \times 1.1$

New number of boys = $x \times 1.16$

Then, $1.1(x + 15) = 1.16x + 9$

$$\Rightarrow 1.16x - 1.1x = 16.5 - 9 = 7.5$$

or $0.06x = 7.5$ or $x = 7.5/0.06 = 125$

Number of boys = 125

Number of girls = 140

$$\Rightarrow \text{Number of students} = 265$$

Q.7)

Ans.(b)

The net annual increase = 5%.

Let the initial population be 100.

Then, population after 2 years

$$= 100 \times 1.05 \times 1.05 = 110.25$$

Therefore, % increase in population

$$= (110.25 - 100) = 10.25\%$$

BHARAT SCHOOL OF BANKING

PERCENTAGE

Q.8)

Ans.(d)

Let the total no. of parts produced at initial stage be 100.

Then after three successive percentage rejections of 10%,

5% and 2%, we have

$$100 \times 0.9 \times 0.95 \times 0.98 = 83.79$$

Therefore, a single effective rejection rate.

$$= 100 - 83.79 = 16.21$$

Q.9)

Ans.(b)

40 % of boys = 20/2 => 40% of boys = 10 girls

Total no. of boys = 25

Total number of students = 25 + 20 = 45

Q.10)

Ans.(c)

20% of 75% = 15%

80% of 25% = 20%

Total = 15 + 20 = 35%

$$\text{Total workers} = \frac{126}{35} * 100 = 360$$