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

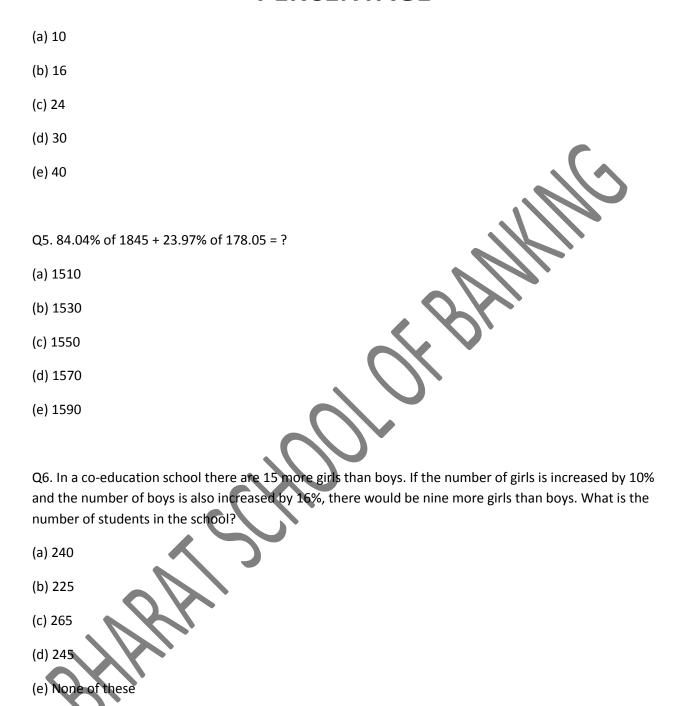
Q2. 4.78% of 1255 + 3.24% of 440 = 0.5% of ?

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

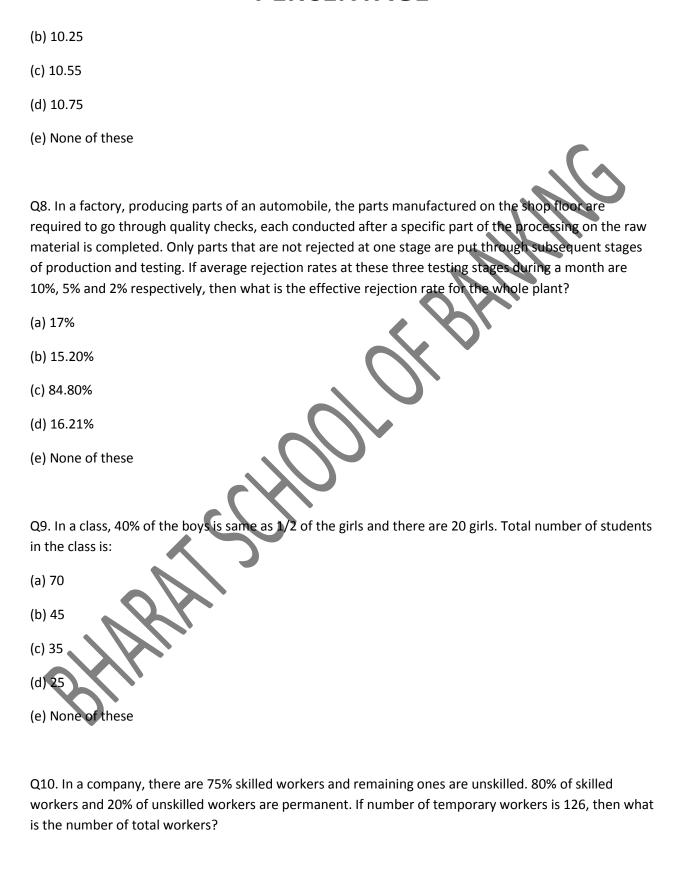
Q3. 35.05% of 3365 + 8900 + 41.99 = ?

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

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



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) 480
- (b) 510
- (c) 360
- (d) 377
- (e) None of these
- Q.1)

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

Q.2)

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

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

Q.3)

Ans.(b)

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

Q.4

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

Q.5)

Ans.(e)

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

= 1549.8 + 42.72 = 1592.52 ≈ 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

Number of boys = 125

Number of girls = 140

⇒ 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

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%

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