

Book For  
Institute of Banking Personnel Selection



**IBPS Clerk Aptitude Sample Paper 2016 Pdf Download**



Visit our websites:

-----  
[www.Couponlal.com](http://www.Couponlal.com)

[www.Myexamportal.com](http://www.Myexamportal.com)

[www.Examlal.com](http://www.Examlal.com)

| [www.Joblal.com](http://www.Joblal.com)

| [www.joinexam.in](http://www.joinexam.in)

| [www.examy.com](http://www.examy.com)

(1) A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?

[A] Rs. 375

[B] Rs. 400

[C] Rs. 600

[D] Rs. 800

**Answer : [B]**

**Explanation:**

$$\text{C's 1 day's work} = \frac{1}{3} - \left( \frac{1}{6} + \frac{1}{8} \right) = \frac{1}{3} - \frac{7}{24} = \frac{1}{24}.$$

$$\text{A's wages : B's wages : C's wages} = \frac{1}{6} : \frac{1}{8} : \frac{1}{24} = 4 : 3 : 1.$$

$$\therefore \text{C's share (for 3 days)} = \text{Rs.} \left( 3 \times \frac{1}{24} \times 3200 \right) = \text{Rs. 400}.$$

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

(2) A can do a piece of work in 4 hours; B and C together can do it in 3 hours, while A and C together can do it in 2 hours. How long will B alone take to do it?

[A] 8 hours

[B] 10 hours

[C] 12 hours

[D] 24 hours

**Answer : [C]**

**Explanation:**

$$\text{A's 1 hour's work} = \frac{1}{4};$$

$$(\text{B} + \text{C})\text{'s 1 hour's work} = \frac{1}{3};$$

$$(\text{A} + \text{C})\text{'s 1 hour's work} = \frac{1}{2}.$$

$$(\text{A} + \text{B} + \text{C})\text{'s 1 hour's work} = \left( \frac{1}{4} + \frac{1}{3} \right) = \frac{7}{12}.$$

$$\text{B's 1 hour's work} = \left( \frac{7}{12} - \frac{1}{2} \right) = \frac{1}{12}.$$

$\therefore$  B alone will take 12 hours to do the work.

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

(3) A takes twice as much time as B or thrice as much time as C to finish a piece of work. Working together, they can finish the work in 2 days. B can do the work alone in:

[A] 4 days

[B] 6 days

[C] 8 days

[D] 12 days

**Answer : [B]**

**Explanation:**

Suppose A, B and C take  $x$ ,  $\frac{x}{2}$  and  $\frac{x}{3}$  days respectively to finish the work.

$$\text{Then,} \left( \frac{1}{x} + \frac{2}{x} + \frac{3}{x} \right) = \frac{1}{2}$$

$$\Rightarrow \frac{1}{x} = \frac{1}{2}$$

$$\Rightarrow x = 12.$$

So, B takes  $(12/2) = 6$  days to finish the work.

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(4) X can do a piece of work in 40 days. He works at it for 8 days and then Y finished it in 16 days. How long will they together take to complete the work?**

[A]

$13\frac{1}{3}$  days

[B] 15 days

[C] 20 days

[D] 26 days

**Answer : [A]**

**Explanation:**

$$\text{Work done by X in 8 days} = \left(\frac{1}{40} \times 8\right) = \frac{1}{5}.$$

$$\text{Remaining work} = \left(1 - \frac{1}{5}\right) = \frac{4}{5}.$$

Now,  $\frac{4}{5}$  work is done by Y in 16 days.

$$\text{Whole work will be done by Y in } \left(16 \times \frac{5}{4}\right) = 20 \text{ days.}$$

$$\therefore \text{X's 1 day's work} = \frac{1}{40}, \text{ Y's 1 day's work} = \frac{1}{20}.$$

$$\text{(X + Y)'s 1 day's work} = \left(\frac{1}{40} + \frac{1}{20}\right) = \frac{3}{40}.$$

Hence, X and Y will together complete the work in  $\left(\frac{40}{3}\right) = 13\frac{1}{3}$  days.

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(5) In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?**

[A] 30%

[B] 70%

[C] 100%

[D] 250%

**Answer : [B]**

**Explanation:**

Let C.P. = Rs. 100. Then, Profit = Rs. 320, S.P. = Rs. 420.

New C.P. = 125% of Rs. 100 = Rs. 125

New S.P. = Rs. 420.

Profit = Rs. (420 - 125) = Rs. 295.

$$\therefore \text{Required percentage} = \left(\frac{295}{420} \times 100\right)\% = \frac{1475}{21}\% = 70\% \text{ (approximately).}$$

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(6) The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:**

[A] 15

[B] 16

[C] 18

[D] 25

**Answer : [B]**

**Explanation:**

Let C.P. of each article be Re. 1 C.P. of  $x$  articles = Rs.  $x$ .

S.P. of  $x$  articles = Rs. 20.

Profit = Rs.  $(20 - x)$ .

$$\therefore \left( \frac{20 - x}{x} \times 100 = 25 \right)$$

$$\Rightarrow 2000 - 100x = 25x$$

$$125x = 2000$$

$$\Rightarrow x = 16.$$

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(7) The percentage profit earned by selling an article for Rs. 1920 is equal to the percentage loss incurred by selling the same article for Rs. 1280. At what price should the article be sold to make 25% profit?**

[A] Rs. 2000

[B] Rs. 2200

[C] Rs. 2400

[D] Data inadequate

**Answer : [A]**

**Explanation:**

Let C.P. be Rs.  $x$ .

$$\text{Then, } \frac{1920 - x}{x} \times 100 = \frac{x - 1280}{x} \times 100$$

$$\Rightarrow 1920 - x = x - 1280$$

$$\Rightarrow 2x = 3200$$

$$\Rightarrow x = 1600$$

$$\therefore \text{ Required S.P.} = 125\% \text{ of Rs. } 1600 = \text{Rs. } \left( \frac{125}{100} \times 1600 \right) = \text{Rs. } 2000.$$

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(8) Sam purchased 20 dozens of toys at the rate of Rs. 375 per dozen. He sold each one of them at the rate of Rs. 33. What was his percentage profit?**

[A] 3.5

[B] 4.5

[C] 5.6

[D] 6.5

**Answer : [C]**

**Explanation:**

$$\text{Cost Price of 1 toy} = \text{Rs. } \left( \frac{375}{12} \right) = \text{Rs. } 31.25$$

Selling Price of 1 toy = Rs. 33

So, Gain = Rs.  $(33 - 31.25) = \text{Rs. } 1.75$

$$\therefore \text{ Profit \%} = \left( \frac{1.75}{31.25} \times 100 \right) \% = \frac{28}{5} \% = 5.6\%$$

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(9) A trader mixes 26 kg of rice at Rs. 20 per kg with 30 kg of rice of other variety at Rs. 36 per kg and sells the mixture at Rs. 30 per kg. His profit percent is:**

[A] No profit, no loss

[B] 5%

[C] 8%

[D] 10%

[E] None of these

**Answer : [B]**

**Explanation:**

C.P. of 56 kg rice = Rs.  $(26 \times 20 + 30 \times 36) = \text{Rs. } (520 + 1080) = \text{Rs. } 1600.$

S.P. of 56 kg rice = Rs.  $(56 \times 30) = \text{Rs. } 1680.$

$$\therefore \text{Gain} = \left( \frac{80}{1600} \times 100 \right) \% = 5\%.$$

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(10) On selling 17 balls at Rs. 720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is:**

[A] Rs. 45

[B] Rs. 50

[C] Rs. 55

[D] Rs. 60

**Answer : [D]**

**Explanation:**

$(\text{C.P. of 17 balls}) - (\text{S.P. of 17 balls}) = (\text{C.P. of 5 balls})$

$\Rightarrow \text{C.P. of 12 balls} = \text{S.P. of 17 balls} = \text{Rs. } 720.$

$$\Rightarrow \text{C.P. of 1 ball} = \text{Rs. } \left( \frac{720}{12} \right) = \text{Rs. } 60.$$

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(11) What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?**

[A] 1

[B] 14

[C] 20

[D] 21

**Answer : [C]**

**Explanation:**

Clearly, the numbers which have 1 or 9 in the unit's digit, have squares that end in the digit 1. Such numbers from 1 to 70 are 1, 9, 11, 19, 21, 29, 31, 39, 41, 49, 51, 59, 61, 69.

Number of such number = 14

$$\therefore \text{Required percentage} = \left( \frac{14}{70} \times 100 \right) \% = 20\%.$$

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(12) A batsman scored 110 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?**

[A] 45%

[B]  
 $45\frac{5}{11}\%$

[C]  
 $54\frac{6}{11}\%$

[D] 55%

**Answer : [B]**

**Explanation:**

Number of runs made by running =  $110 - (3 \times 4 + 8 \times 6)$   
 $= 110 - (60)$   
 $= 50.$

$$\therefore \text{Required percentage} = \left( \frac{50}{110} \times 100 \right) \% = 45\frac{5}{11}\%$$

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

**(13) A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:**

- [A] 588 apples
- [B] 600 apples
- [C] 672 apples
- [D] 700 apples

**Answer : [D]**

**Explanation:**

Suppose originally he had  $x$  apples.  
 Then,  $(100 - 40)\%$  of  $x = 420$ .

$$\Rightarrow \frac{60}{100} \times x = 420$$

$$\Rightarrow x = \left( \frac{420 \times 100}{60} \right) = 700.$$

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

**(14)**

A student multiplied a number by  $\frac{3}{5}$  instead of  $\frac{5}{3}$ .

**What is the percentage error in the calculation?**

- [A] 34%
- [B] 44%
- [C] 54%
- [D] 64%

**Answer : [D]**

**Explanation:**

Let the number be  $x$ .

$$\text{Then, error} = \frac{5}{3}x - \frac{3}{5}x = \frac{16}{15}x.$$

$$\text{Error}\% = \left( \frac{16x}{15} \times \frac{3}{5x} \times 100 \right) \% = 64\%.$$

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

**(15) Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get?**

- [A] 57%
- [B] 60%
- [C] 65%
- [D] 90%

**Answer : [A]**

**Explanation:**

Total number of votes polled =  $(1136 + 7636 + 11628) = 20400$ .

$$\therefore \text{Required percentage} = \left( \frac{11628}{20400} \times 100 \right) \% = 57\%.$$

(16) Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is:

- [A] 9
- [B] 11
- [C] 13
- [D] 15

**Answer : [D]**

**Explanation:**

Let the three integers be  $x$ ,  $x + 2$  and  $x + 4$ .  
Then,  $3x = 2(x + 4) + 3 \Leftrightarrow x = 11$ .  
 $\therefore$  Third integer =  $x + 4 = 15$ .

---

(17) The difference between a two-digit number and the number obtained by interchanging the digits is 36. What is the difference between the sum and the difference of the digits of the number if the ratio between the digits of the number is 1 : 2 ?

- [A] 4
- [B] 8
- [C] 16
- [D] None of these

**Answer : [B]**

**Explanation:**

Since the number is greater than the number obtained on reversing the digits, so the ten's digit is greater than the unit's digit.  
Let ten's and unit's digits be  $2x$  and  $x$  respectively.  
Then,  $(10 \times 2x + x) - (10x + 2x) = 36$   
 $\Rightarrow 9x = 36$   
 $\Rightarrow x = 4$ .  
 $\therefore$  Required difference =  $(2x + x) - (2x - x) = 2x = 8$ .

---

(18) A two-digit number is such that the product of the digits is 8. When 18 is added to the number, then the digits are reversed. The number is:

- [A] 18
- [B] 24
- [C] 42
- [D] 81

**Answer : [B]**

**Explanation:**

Let the ten's and unit digit be  $x$  and  $\frac{8}{x}$  respectively.

$$\text{Then, } \left( 10x + \frac{8}{x} \right) + 18 = 10 \times \frac{8}{x} + x$$

$$\begin{aligned} \Rightarrow 10x^2 + 8 + 18x &= 80 + x^2 \\ \Rightarrow 9x^2 + 18x - 72 &= 0 \\ \Rightarrow x^2 + 2x - 8 &= 0 \\ \Rightarrow (x + 4)(x - 2) &= 0 \\ \Rightarrow x &= 2. \end{aligned}$$

---

(19) In a two-digit, if it is known that its unit's digit exceeds its ten's digit by 2 and that the product of the given number and the sum of its digits is equal to 144, then the number is:

[A] 24

[B] 26

[C] 42

[D] 46

**Answer : [A]**

**Explanation:**

Let the ten's digit be  $x$ .

Then, unit's digit =  $x + 2$ .

Number =  $10x + (x + 2) = 11x + 2$ .

Sum of digits =  $x + (x + 2) = 2x + 2$ .

$\therefore (11x + 2)(2x + 2) = 144$

$\Rightarrow 22x^2 + 26x - 140 = 0$

$\Rightarrow 11x^2 + 13x - 70 = 0$

$\Rightarrow (x - 2)(11x + 35) = 0$

$\Rightarrow x = 2$ .

Hence, required number =  $11x + 2 = 24$ .

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---

**(20) A number consists of 3 digits whose sum is 10. The middle digit is equal to the sum of the other two and the number will be increased by 99 if its digits are reversed. The number is:**

[A] 145

[B] 253

[C] 370

[D] 352

**Answer : [B]**

**Explanation:**

Let the middle digit be  $x$ .

Then,  $2x = 10$  or  $x = 5$ . So, the number is either 253 or 352.

Since the number increases on reversing the digits, so the hundred's digit is smaller than the unit's digit.

Hence, required number = 253.

---

[www.myexamportal.com](http://www.myexamportal.com) | [www.couponlal.com](http://www.couponlal.com) | [www.examlal.com](http://www.examlal.com) | [www.joblal.com](http://www.joblal.com) | [www.examy.com](http://www.examy.com)

---