2) 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 or loss B) 5% C) 8% D) 10%

3) By selling 45 lemons for Rs 40, a man loses 20%. How many should he sell for Rs 24 to gain 20% in the transaction ?

A) 16 B) 18 C) 20 D) 22

4) If the cost price of 12 pens is equal to the selling price of 8 pens, the gain percent is ?

A) 12% B) 30% C) 50% D) 60%

5) 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

– Jishnu

August
week-1

2. 102 - 16 ÷ 8 = ?

3. (25 + 11) x 2 = ?

4. 3 + 6 x (5 + 4) ÷ 3 -7 = ?

5. 56 - 2(20 + 12 ÷ 4 x 3 - 2 x 2) + 10 =

6. 6 + [(16 - 4) ÷ (22 + 2)] - 2 =

7. (96 ÷ 12) + 14 x (12 + 8) ÷ 2 =

8. (93 + 15) ÷ (3 x 4) - 24 + 8 = ?

9. 55 ÷ 11 + (18 - 6) x 9 = ?

week-2

'729' means 'pictures are faint'.

Which of the following digits stands for 'see'?

A) 9 B) 2 C) 1 D) 8

2. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH ?

A) 246173 B) 214673

C) 214763 D) 216473

3. In a certain code language,

(A) 'pit na som' means 'bring me water'

(B) 'na jo tod' means 'water is life'

(C) 'tub od pit' means 'give me toy'

(D) 'jo lin kot' means 'life and death'

Which of the following represents 'is' in that language ?

A) jo B) na C) tod D) lin

4. In a certain code language, "ISSUE" is written as "341145", in the same code language what will be the code for "DATES"?

A)4567 B)340045

C)4120519 D)7600

Rs. 450. The selling price should be?

A. Rs. 405 B. Rs. 400

C. Rs. 395 D. Rs. 410

2. How much percent more than the cost price should a shopkeeper mark his goods so that after allowing a discount of 25% on the marked price, he gains 20%?

A. 60% B. 55% C. 70% D. 50%

3. A retailer purchased radiosets at the rate of Rs. 400 each from a wholesaler. He raised the price by 30% and then allowed a discount of 8% on each set. His profit will be:

A. 19% B. 78.4% C. 22% D. 19.6%

4.An article is sold at 10% loss. If the selling price is Rs. 40 more, there will be a gain of 15%. The cost price of the article is:

A. Rs.140 B. Rs.120

C. Rs175 D. Rs. 160

5. The marked price of a table is Rs. 800. A retailer bought it after two successive discounts of 10% and 15%. He spent Rs. 13 on transportation and sold it for Rs. 875. His profit was:

A. 40% B. 37% C. 28% D. 25%

– Jishnu

week-4

3) [72 - 12 ÷ by 3 - 2]+(18 - 6) ÷ 4=?

4) 40 - [20 - {14 - (16 - 6 x 4 - 2)}] = ?

5) 33-9+40-(30+15) =

6) 33-9+40+25-(30+15) =

7) 3+21 x 6-(24-4) =

8) 3+21 x 6-(24-4) x 2 =

9) (62 ÷ 2 - 3) x 3 +6 =

10) (62 ÷ 2 - 3) x 3 +6 x 2=

11) 18 - [6 - {4 - (8 - 6 + 3)}] =

12) 8÷8 of 8+8/8÷8×8+8 =

13) -10 ÷ (20 ÷ 2^2 × 5 ÷ 5) × 8 - 2 =

14) 3 x (4 x 5^2) ÷ 6 + 7 - 8 =?

15) 33-9+40+25-(30+15) =?

Sep -2020

Week-1

2) 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. 55 B) Rs. 60 C) Rs. 65 D) Rs. 70

3) A person incurs a loss of 5% be selling a watch for Rs. 1140. At what price should the watch be sold to earn 5% profit.

A) Rs.1200 B) Rs.1230

C) Rs.1260 D) Rs.1290

4) By selling an article at Rs.800, a shopkeeper makes a profit of 25%.At what price should he sell the article so as to make a loss of 25%?

A) Rs.720B) Rs.640C) Rs.540D) Rs.480

5) Due to reduction of 25% in price of oranges a customer can purchase 4 oranges more for Rs. 16. what is original price of an orange?

A) Rs 1B) Rs 1.33C) Rs 1.5D) Rs 1.6

– Jishnu

week-2

profit percent?

A. 10% B. 15% C. 20% D. 25%

2) A shopkeeper earns a profit of 15% on selling a book at 10% discount on the printed price. The ratio of the cost price and the printed price is:

A. 18 : 23. B. 16 : 21

C. 18 : 21 D. 17 : 23

3) If a selling price of Rs. 24 results in 20% discount on the list price of an article, the selling price that would result in 30% discount on the list price is:

A. Rs.17 B.Rs.23 C.Rs.18 D.Rs. 21

4) If the cost price of 15 books is equal to the selling price of 20 books, the loss percent is:

A. 16 B. 20 C. 24 D.25

Successive discounts of 10%, 20% and 30% is equivalent to a single discount of:

A. 60% B. 49.6% C. 40.5% D. 36%

Week-3

(c) 45 sec (d) 48 sec

A train 132 m long passes a telegraph pole in 6 seconds. Find the speed of the train.

(a) 70 km/hr (b) 72 km/hr

(c) 79.2 km/hr (d) 80 km/hr

A train covers a distance of 12 km in 10 minutes. If it takes 6 seconds to pass a telegraph post, then the length of the train is :

(a) 90 m (b) 100 m

(c) 120 m (d) 140 m

A train 240 m long passed a pole in 24 seconds. How long will it take to pass a platform 650 m long?

(a) 65 sec (b) 89 sec

(c) 100 sec (d) 150 sec

The length of the bridge, which a train 130 metres long and travelling at 45 km/ hr can cross in 30 second, is :

(a) 200 m (b) 225 m

(c) 245 m (d) 250 m

– Jishnu

week-4

1. If A + B means A is the mother of B;

A - B means A is the brother B;

A % B means A is the father of B and

A x B means A is the sister of B,

which of the following shows that P is the maternal uncle of Q?

A. Q - N + M x P

B. P + S x N - Q

C. P - M + N x Q

D. Q - S % P

2. If A + B means A is the brother of B;

A - B means A is the sister of B and

A x B means A is the father of B.

Which of the following means that C is the son of M?

A. M - N x C + F

B. F - C + N x M

C. N + M - F x C

D. M x N - C + F

Jan-2021
week-1

A) MFEDJJOE B) EOJDEJFM

C) MFEJDJOE D) EOJDJEFM

2. If FRIEND is coded as HUMJTK, how is CANDLE written in that code ?

A) EDRIRL B) DCQHQK

C) ESJFME D) DEQJQM

3. If 'FROZEN' is written as 'OFAPSG'. Then how would 'MOLTEN' be written in that code?

1. OFPOMN 2. OFSMPN

3. OFUMPN 4. OFUNPM

4. If 'CERTAIN' is coded as 'BFQUZJM'. Then 'MUNDANE' coded as ?

1. LVMEZOD 2. NTCOMBF

3. NTOCNBF 4. LTMCZOF

5. If 'LIMCA' is written as 'HJLDZ'. Which of the following words is written as 'IFWJBP'?

1. M E X I C O 2. MERCURY

3. JAPAN 4. MIDNIGHT

February → 2021
Week - 1

Problems on Trains - Quantitative Aptitude

Important Formulas:

Speed of the Train = Total distance covered by the train / Time taken

If the length of two trains is given, say a and b, and the trains are moving in opposite directions with speeds of x and y respectively, then the time taken by trains to cross each other = {(a+b) / (x+y)}

If the length of two trains is given, say a and b, and they are moving in he same direction, with speeds x and y respectively, then the time is taken to cross each other = {(a+b) / (x-y)}

– Anuradha

February 2021
Week - 2

👉If two trains leave x and y stations at time t1 and t2 respectively and travel with speed L and M respectively, then distanced from x, where two trains meet is = (t2 - t1) × {(product of speed) / (difference in speed)}

👉The average speed of a train without any stoppage is x, and with the stoppage, it covers the same distance at an average speed of y, then Rest Time per hour = (Difference in average speed) / (Speed without stoppage)

👉If two trains of equal lengths and different speeds take t1 and t2 time to cross a pole, then the time taken by them to cross each other if the train is moving in opposite direction = (2×t1×t2) / (t2+t1)

👉If two trains of equal lengths and different speeds take t1 and t2 time to cross a pole, then the time taken by them to cross each other if the train is moving in the same direction = (2×t1×t2) / (t2-t1)

– Anuradha

February – 2021
Week-3

a)200m b)250m c)325m d)280m e)140m

Answer: (d) 280m

Solution:

Speed = {56 × (5/18)} m/sec = (140/9) m/sec

Length of the train (Distance) = Speed × Time = {(140/9) × 18} = 280 m

2. Time is taken by two trains running in opposite directions to cross a man standing on the orm in 28 seconds and 18 seconds respectively. It took 26 seconds for the trains to cross each other. What is the ratio of their speeds?

a) 2:3 b)3:2 c)1:4 d)3:1 e)4:1

Answer: (5) 4:1

Solution:

Let the speed one train be x and the speed of the second train be y

Length of the first train = Speed × Time = 28x

Length of second train = Speed × Time = 18y

So, {(28x+18y) / (x+y)} = 26

⇒ 28x+18y = 26x+26y

⇒ 2x = 8y