

Accenture Aptitude & Reasoning

1. A certain number of men take 45 days to complete work. If there are 10 men less then they will take 60 days to complete the work. Find the original number of men.

A. 50

B. 60

C. 30

D. 40

Answer – D. 40

Explanation:

Let us assume initially there are X men. Then $x \cdot 45 = (x-10) \cdot 60$. So we get $x = 40$

2. 5 men and 10 boys can do a piece of work in 30 days and 8 men and 12 boys can do the work in 20 days then the ratio of daily work done by a man to that of a boy.

A. 5:1

B. 4:5

C. 6:1

D. 7:3

Answer – C. 6:1

Explanation:

Given that, $5m + 10b = 1/30$ and $8m + 12b = 1/20$

after solving we get $m = 1/200$ and $b = 1/1200$

so required ratio = $(1/200) : (1/1200) = 6:1$

3. 4 women and 5 men working together can do 3 times the work done by 2 women and one man together. Calculate the work of a man to that of a woman.

A. 1:1

B. 3:2

C. 1:2

D. 2:1

Answer – A. 1:1

Explanation:

Given

$$4w + 5m = 3*(2w + m)$$

$$\text{i.e. } 2w = 2m$$

so the ratio of work done by man to woman is 1:1

4. Manoj can do a work in 20 days, while Chandu can do the same work in 25 days. They started the work jointly. A few days later Suresh also joined them and thus all of them completed the whole work in 10 days. All of them were paid total Rs.1000. What is the share of Suresh?

A. 100

B. 300

C. 200

D. 400

Answer – A. 100

Explanation:

Efficiency of Manoj = 5%

The efficiency of Chandu = 4%

They will complete only 90% of the work = $[(5+4)*10] = 90$

Remaining work was done by Suresh = 10%.

Share of Suresh = $10/100 * 1000 = 100$

5. Nagarjuna lends Rs 30,000 of two of his friends. He gives Rs 15,000 to the first at 6% p.a. simple interest. He wants to make a profit of 10% on the whole. The simple interest rate at which he should lend the remaining sum of money to the second friend is

A. 8%

B. 12%

C. 14%

D. 16%

Answer – C. 14%

Explanation:

Simple Interest on Rs 15000

$$=(15000 \times 6 \times 1) / 100 = \text{Rs. } 900$$

Profit to made on Rs 30000

$$= 30000 \times 10 / 100 = \text{Rs } 3000$$

$$\text{Simple Interest on Rs.15000} = 3000 - 900 = \text{Rs.2100}$$

$$\text{Rate} = (\text{S.I.} \times 100) / (\text{P} \times \text{T}) = (2100 \times 100) / 15000$$

$$= 14\% \text{ per annum}$$

Therefore, the simple interest rate at which he should lend the remaining sum of money to the second friend is 14%

6. A portion of \$6600 is invested at a 5% annual return, while the remainder is invested at a 3% annual return. If the annual income from the portion earning a 5% return is twice that of the other portion, what is the total income from the two investments after one year?

A. 270

B. 250

C. 280

D. 200

Answer – A. 270

Explanation:

According to the given data

$$5x + 3y = z \text{ (total)}$$

$$x + y = 6600$$

$$5x = 2(3y) \text{ [condition given] } 5x - 6y = 0$$

$$x + y = 6600$$

$$5x - 6y = 0$$

Subtract both equations and you get $x = 3600$ so $y = 3000$

$$3600 \times .05 = 180$$

$$3000 \times .03 = 90$$

$$z \text{ (total)} = 270$$

Therefore, the total income from the two investments after one year = 270

7. While calculating the weight of a group of men, the weight of 63 kg of one of the member was mistakenly written as 83 kg. Due to this the average of the weights increased by half kg. What is the number of men in the group?

A. 25

B. 20

C. 40

D. 60

Answer – C. 40

Explanation:

Increase in marks lead to an increase in average by $\frac{1}{2}$

$$\text{So } (83-63) = \frac{x}{2}$$

$$x = 40$$

Therefore, the number of men in the group are 40

8. In a group of 8 boys, 2 men aged at 21 and 23 were replaced, two new boys. Due to this the average cost of the group increased by 2 years. What is the average age of the 2 new boys?

A. 17

B. 30

C. 28

D. 23

Answer – B. 30

Explanation:

According to the given data

Average of 8 boys increased by 2, this means the total age of boys increased by $8 \times 2 = 16$ yrs

$$\text{So sum of ages of two new boys} = 21 + 23 + 16 = 60$$

$$\text{Average of these} = \frac{60}{2} = 30$$

9. A Boat takes total 16 hours for traveling downstream from point A to point B and coming back point C which is somewhere between A and B. If the speed of the Boat in Still water is 9 Km/hr and the rate of stream is 6 Km/hr, then what is the distance between A and C?

A. 60 Km

B. 90 Km

C. 30 Km

D. Cannot be determined

Answer – D. Cannot be determined

Explanation:

$$16 = D/9+6 + x/9-6$$

10. A Boat going upstream takes 8 hours 24 minutes to cover a certain distance, while it takes 5 hours to cover $5/7$ of the same distance running downstream. Then what is the ratio of the speed of boat to speed of water current?

A. 11:5

B. 11:6

C. 11:1

D. 6:5

Answer – C. 11:1

Explanation:

$$(S-R)*42/5 = (S+R)*7$$

$$S:R = 11:1$$

11. A Boat takes 128 min less to travel to 48 Km downstream than to travel the same distance upstream. If the speed of the stream is 3 Km/hr. Then Speed of Boat in still water is?

A. 12 Km/hr

B. 15 Km/hr

C. 6 Km/hr

D. 9 Km/hr

Answer – A. 12 Km/hr

Explanation:

$$32/15 = 48(1/s-3 - 1/s+3)$$

$$s= 12$$

Therefore, Speed of Boat in still water is 12 Km/hr.

12. An alloy contains Brass, Iron, and Zinc in the ratio 2:3:1 and another contains Iron, zinc, and lead in the ratio 5:4:3. If equal weights of both alloys are melted together to form a third alloy, then what will be the weight of lead per kg in new alloy?

A. $\frac{1}{4}$

B. $\frac{41}{7}$

C. $\frac{1}{8}$

D. $\frac{51}{9}$

Answer – C. $\frac{1}{8}$

Explanation:

Shortcut:

In the first alloy,

$$2:3:1 = 6 \times 2$$

$$5:4:3 = 12$$

Multiply 2 to make it equal,

$$4:6:2$$

$$5:4:3$$

Adding all,

$$4:11:6:3 = 24$$

$$\frac{3}{24} = \frac{1}{8}$$

13. A milkman mixes 6 liters of free tap water with 20 litres of pure milk. If the cost of pure milk is Rs.28 per liter the % Profit of the milkman when he sells all the mixture at the cost price is

A. 30%

B. $16\frac{1}{3}\%$

C. 25%

D. 16.5%

Answer – A. 30%

Explanation:

$$\text{Profit} = 28 \times 6 = 168$$

$$\text{Cp} = 28 \times 20 = 560$$

$$\text{Profit} = \frac{168 \times 100}{560} = 30\%$$

14. 144 liters of the mixture contains milk and water in the ratio 5: 7. How much milk needs to be added to this mixture so that the new ratio is 23: 21 respectively?

- A. 40 liters
- B. 28 liters
- C. 32 liters
- D. 36 liters

Answer – C. 32 liters

Explanation:

$$144 \text{ } \Rightarrow \text{ } 5:7$$

$$60: 84$$

$$\text{Now } \Rightarrow 21 = 84$$

$$23 = 92$$

$$92-60 = 32$$

15. A shopkeeper bought 30kg of rice at Rs.75 per kg and 20 kg of rice the rate of Rs.70. per kg.If he mixed the two brand of rice and sold the mixture at Rs.80 per kg. Find his gain

- A. Rs.350
- B. Rs.550
- C. Rs.420
- D.Rs.210

Answer – A. Rs.350

Explanation:

$$CP = 30*75 + 20*70 = 2250 + 1400$$

$$= 3650$$

$$SP = 80*(30+20) = 4000$$

$$\text{Hence, Gain} = 4000-3650 = 350$$

16. Cost price of 80 notebooks is equal to the selling price of 65 notebooks. The gain or loss % is

- A. 32%

B. 42%

C. 27%

D. 23%

Answer – D. 23%

Explanation:

$$\% = [80 - 65/65] * 100$$

$$= 15 * 100 / 65 = 1500 / 65$$

$$= 23.07 = 23\% \text{ profit}$$

Therefore, the gain percentage is 23%.

17. Eight years ago, Pranathi's age was equal to the sum of the present ages of her one son and one daughter. Five years hence, the respective ratio between the ages of her daughter and her son that time will be 7:6. If Pranathi's husband is 7 years elder to her and his present age is three times the present age of their son, what is the present age of the daughter?

A. 19 years

B. 27 years

C. 15 years

D. 23 years

Answer – D. 23 years

Explanation:

$$P - 8 = S + D \text{ ---(1)}$$

$$6D + 30 = 7S + 35 \text{ ---(2)}$$

$$H = 7 + P$$

$$H = 3S$$

$$3S = 7 + P \text{ ---(3)}$$

Solving equation (1),(2) and (3) $D = 23$

Therefore, the present age of the daughter is 23 years

18. Shas married 8 year ago. Today her age is 9/7 times to that time of marriage. At present his son's age is 1/6th of her age. What was her son's age 3 year ago?

A. 4 yr

B. 2 yr

C. 3 yr

D. 5 yr

Answer – B. 2 yr

Explanation:

Let us assume that Sravan's age 8 year ago = x

Present age = $x + 8$

$$x + 8 = \frac{9}{7}x$$

$$7(x + 8) = 9x$$

$$x = 28; 28 + 8 = 36$$

$$\text{Son's age} = \frac{1}{6} * 36 = 6$$

$$\text{Son's age 4 year ago} = 6 - 4 = 2$$

19. The respective ratio between the present age of Mani and Dheeraj is $x : 42$. Mani is 8 years younger than Murali. Murali's age after 8 years will be 33 years. The difference between Dheeraj's and Mani's age is same as the present age of Murali. What is the value of x ?

A. 18

B. 10

C. 16

D. 17

Answer – D. 17

Explanation:

Murali's age after 8 years = 33 years

Murali's present age = $33 - 8 = 25$ years

Mani's present age = $25 - 8 = 17$ years

Dheeraj's present age = $17 + 25 = 42$ years

Ratio between Mani and Dheeraj = 17: 42

$$X = 17$$

20. Revanth's present age is three times his son's present age and $\frac{4}{5}$ th of his father's present age. The average of the present ages of all of them is 62 years. What is the difference between the Revanth's son's present age and Revanth's father's present age?

- A. 64 years
- B. 69 years
- C. 66 years
- D. 62 years

Answer – C. 66 years

Explanation:

Present age of Revanth is $= 4/5x$

Present age of Revanth's father is $= 4/15x$

Ratio = 15: 12 : 4

Difference between the Revanth's son's present age and Revanth's father's present age = $62/31 * 3(15 - 4)$.

$= 2*3*11 = 66$ years.

21. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- A. Chess
- B. Badminton
- C. Cricket
- D. Volleyball
- E. Table tennis

Answer – A. Chess

Explanation: Remaining games are played in the field

22. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- A. BCDF
- B. KJNL
- C. RSTU
- D. WXYZ
- E. FGHP

Answer – C. RSTU

Explanation: Remaining are contained only consonants

23. Statements:

- I. The bank decided to give advances to the priority sector at the rate of interest at par with the corporate sector.
 - II. The percentage of bad loans given by the banks to the priority sector is very low compared to the corporate sector.
- A. I is the cause and II is its effect.
 - B. II is the cause and I is its effect.
 - C. Both I and II are independent causes.
 - D. Both I and II are effects of independent causes.
 - E. Both I and II are effects of some common causes.

Answer – D. Both the I and II are effects of independent causes.

Explanation:

The bank can change its policy with the priority sector due to a change in government policy. Thus, it is an effect. But the same cause cannot be the reason for the percentage of bad loans being less for the priority sector.

24. In a class of 20 students, Shreya is 5 from the top and Annie is 7 ranks below Shreya. Find Annie's rank from the bottom.

- A. 3
- B. 5
- C. 6
- D. 9
- E. None of these

Answer – D. 9

Explanation:

Annie is 12 ranks from top, so from bottom = $20 - 12 + 1 = 9$

25. Rita is sitting 5th from the left end of the row and Sita is 11th to the right of Rita with Tina being 4th to left of Sita. Madhuri is 8th to the right of Tina. What is the total number of students in the row if Madhuri is sitting at the extreme end?

- A. 20

B. 28

C. 23

D. 33

E. 12

Answer – A. 20

Explanation:

Rita is 5th from left, Sita 11th to the right of Rita, so 16th from the left end, Tina is 4th to left of Sita so Tina is 12th from the left end. Now Madhuri is 8th to the right of Tina, this means 20th from left, so 20 students

26. Carbon dioxide: Extinguish:: Oxygen:?

A. Foam

B. Explode

C. Burn

D. Isolate

E. None of these

Answer – C. Burn

Explanation:

Oxygen supports Burning similarly Carbon dioxide helps in extinguishing

27. In which year was Sugan born?

I. Sugan's present age is 20 years more than his child

II. Sugans have two children. The first child was born in 1993?

A. Only I

B. Only II

C. Both I and II

D. Either I or II

E. Neither I or II

Answer – 5. Neither I or II

Explanation:

From I:

S = 20+Which child(not mentioned)

From II:

Only data about first child

28. Receptacle[Synonym]

A. Recrudesce

B. Decline

C. Definiteness

D. Container

Answer – D. Container

Explanation: Receptacle – a hollow object used to contain something.

29. Sapient[Antonym]

A. Strong

B. Simple

C. Simian

D. Hunched

Answer – B. Simple

Explanation: sapient means possessing great wisdom, or sage; one meaning of simple is deficient in intelligence.

Simple – easily understood or done; presenting no difficulty.

30. Identify the error sentence

A. the stars, let me see what spring is

B. like, on Jupiter and Mars” sang

C. Fly me to the moon, let me play between

D. No error.

Answer – C. Fly me to the moon, let me play between

Explanation: The correct sentence is, Fly me to the moon, let me play among

31. I. Diane tried to _____ her father into letting her drive the family car.

II. He stooped to the evil of hypocrisy with others, skeptical of their innocence which he could _____ so easily.

A. loathsome

B. irksome

C. cajole

D. fusty

Answer – C. cajole

Explanation:

Cajole- influence or urge by gentle urging or flattering

32. Yen: Currency

A. Brass: Mental

B. Flower: Fragrance

C. Paper: Book

D. Karnataka: State

Answer – D. Karnataka: State

Explanation: Yen is a currency. Similarly, Karnataka is a state.

33. At the spur of the moment[Idioms and Phrases]

A. Without Delay

B. Great Moment

C. Very Slow

D. Difficult Moment

Answer – A. Without Delay

Explanation: It is not necessary that we should always reply at the spur of the moment in the interview, we should think before answer if we are not sure.

34. All in all

A. Call all at once

B. Most important

C. Every person

D. Particular thing same in all

Answer – B. Most important

Explanation: As she is the only girl in a big family, so she is all in all in her home.

35. Until a few years ago, the toss-up for the city's commuters was between overcrowded city buses and _____, sometimes-greedy autorickshaw drivers.

A. stunning

B. usual

C. eccentric

D. horrible

Answer – C. eccentric

Explanation: eccentric – unusual

36. Find out which underlined part of the sentence below has an error and mark the option accordingly. Butterflies are considered as the main agent of transferring pollen grains.

Sometimes, this gives rise to different species of flowers, a true fascination unknown to the science world.

A. Sometimes, this gives rise to different

B. Considered as the main

C. Of transferring

D. Unknown to the science world

Answer: B

Read the passage given below and answer the questions that follow.[37-40]

Dogs, often hailed as humans' best friends, have been the topic of many scientific studies looking into how they might boost our well-being. It is likely that humans and dogs have shared

a special bond of friendship and mutual support ever since at least the Neolithic period — but why has this bond been so long-lasting?

A recent study showed that owning a dog reduces a person's risk of premature death by up to a

third. Also, researchers at the University of Harvard in Cambridge, MA, suggest that dog owners

have a lower risk of heart disease. Dogs can strengthen our health not just as we grow older, but

also much, much earlier than that: before we are even born. Research published last year suggests that children who were exposed to dogs while still in the womb — as their mothers spent time around dogs during pregnancy — had a lower risk of developing eczema in early childhood. When we interact with dogs, our oxytocin levels shoot up. Since this is the hormone

largely responsible for social bonding, this hormonal “love injection” boosts our psychological

well-being. Previous studies analyzed in the review have revealed that dog owners have more positive social interactions, and that the presence of canine friends makes people more trusting.

Moreover, dogs appear to reduce symptoms of depression and render people more resilient to stress. That is why dogs are often used as therapy animals.

37. Choose the option that is closest in meaning to the word ‘resilient’ as used in the passage

- A. Stable
- B. Unadaptable
- C. Immune
- D. Determined

Answer: C

38. The passage is primarily concerned with:

- A. Emphasizing how building a bond with dogs can help us in health matters
- B. Outlining the relationship of humans and dogs.
- C. Highlighting that dogs are used in medical aid now-a-days.
- D. Listing the benefits of owning a dog and how to establish a bond with them.

Answer: A

39. The author feels that the owning a dog affects the mental health:

- A. Quickly
- B. Positively
- C. Emphatically
- D. Negatively

Answer: B

40. Mark the option which is closest in meaning to the word given below.

COHERENCE

- A. Fighting
- B. Unity
- C. Companionship
- D. Slowness

Answer: B