

NABARD Grade A Previous Year Paper for 2021

NABARD Grade A Phase 1
Previous Year Questions



2021:(Q.71 to Q.90)

Q.71) Pipe A can fill a tank in 36 min. Pipe B can fill it in 45 min. Both pipes are opened together. Pipe A is closed after X min. Total time taken to fill the tank is 30 min. Find X.

- (a) 15 minutes
- (b) 18 minutes
- (c) 12 minutes
- (d) 9 minutes
- (e) 6 minutes

Answer – (c)

Explanation -

LCM of 36 and 45 is 180

So, let total work is 180 units

Work done by pipe A in 1 minute = $180/36 = 5$ unit

Work done by pipe B in 1 minute = $180/45 = 4$ unit

Pipe A is open for X minutes whereas Pipe B is open for the entire 30 minutes.

$$5X + 4(30) = 180$$

$$5X = 60$$

$$X = 12 \text{ minutes}$$

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Q.72) A set has 5 consecutive even numbers. Square of average of last 3 numbers of the set is 420 more than square of smallest number of the set. What is the sum of smallest and largest even numbers of the set together?

- (a) 74
- (b) 76
- (c) 70
- (d) 72
- (e) 78

Answer – (d)

Explanation -

Let the five consecutive even numbers be $A-4$, $A-2$, A , $A+2$, $A+4$.

$$((A + A + 2 + A + 4)/3)^2 = (A - 4)^2 + 420$$

$$((3A + 6)/3)^2 = A^2 + 16 - 8A + 420$$

$$(A + 2)^2 = A^2 + 436 - 8A$$

$$A^2 + 4 + 4A = A^2 + 436 - 8A$$

$$12A = 432$$

$$A = 36$$

$$\text{Required Sum} = (A - 4) + (A + 4) = 36 - 4 + 36 + 4 = 72$$

Q.73) Area of a rectangle is 96 square metre more than the area of a triangle. Length of rectangle is 18 m. Height of triangle is 20 m. Base of triangle is equal to breadth of rectangle. Find the perimeter of rectangle.

- (a) 60
- (b) 72
- (c) 54
- (d) 64
- (e) 48

Answer – (a)

Explanation -

Area of rectangle = Length x Breadth

Area of triangle = $\frac{1}{2} \times \text{Base} \times \text{Height}$

Base = Breadth

Length x Breadth = 96 + ($\frac{1}{2} \times \text{Base} \times \text{Height}$)

$$18 \times \text{Breadth} = 96 + (\frac{1}{2} \times \text{Breadth} \times 20)$$

$$18 \times \text{Breadth} = 96 + (10 \times \text{Breadth})$$

$$8 \times \text{Breadth} = 96$$

$$\text{Breadth} = 12\text{m}$$

$$\text{Perimeter} = 2 \times (\text{Length} + \text{Breadth}) = 2 \times (18 + 12) = 60\text{m}$$

Q.74) Vessel A contains 120 litre mixture of milk and water in the ratio 17:7. 40% is poured out into vessel B. Vessel B already contains 100 litre mixture of equal milk and water. Find the new ratio of milk and water in vessel B.

- (a) 32:21
- (b) 21:16
- (c) 15:8
- (d) 25:14
- (e) 18:11

Answer – (b)

Explanation -

$$\text{Milk} = 17/24 \times 120 = 85$$

$$\text{Water} = 7/24 \times 120 = 35$$

$$40\% \text{ of } 85 = 34$$

$$40\% \text{ of } 35 = 14$$

$$\text{New quantity of Milk in vessel B} = 34 + 50 = 84$$

$$\text{New quantity of Water in vessel B} = 14 + 50 = 64$$

$$\text{New ratio} = 84 : 64 = 21 : 16$$

Q.75) Ratio of present age of Ranjan and Sanjay is 3:2. Sanjay's age 8 years hence will be equal to Ranjan's age 8 years ago. If Irfan is 12 years older than Sanjay, what is the present age of Irfan?

(a) 60

(b) 44

(c) 42

(d) 32

(e) 52

Answer – (b)

Explanation -

Let Ranjan's present age be $3y$ and Sanjay's present age be $2y$.

$$2y + 8 = 3y - 8$$

$$y = 16$$

$$\text{Present age of Sanjay} = 2y = 32$$

$$\text{Present age of Irfan} = 32 + 12 = 44$$

Q.76) Marks obtained by A, B, C = 207. A scores $3/4$ th of B. B scores average of A, B and C plus 3. Find the ratio of marks of A and C.

(a) 4:5

(b) 8:9

(c) 2:3

(d) 3:4

(e) 5:6

Answer – (c)

Explanation -

$$B = ((A+B+C)/3) + 3$$

$$B = 207/3 + 3$$

$$B = 72$$

$$A = 3B/4$$

$$A = 3 \times 72/4 = 54$$

$$C = 207 - 54 - 72 = 81$$

$$\text{Required ratio} = 54 : 81 = 2 : 3$$

Q.77) A principal of Rs 10500 is invested in scheme A at Simple Interest at 12% p.a. for 10 years. One-third of the interest earned from A is invested in scheme B at 12% p.a. simple interest for 5 years. Find the amount received from B after 5 years.

- (a) 7240
- (b) 5480
- (c) 6720
- (d) 2520
- (e) 6250

Answer – (c)

Explanation -

Interest earned from A = $10500 \times 12 \times 10/100 = 12600$

One-third interest = $12600/3 = 4200$

Rs 4200 are invested in scheme B for 5 years.

So, interest earned from B = $4200 \times 12 \times 5 / 100 = 2520$

Amount received from B after 5 years = $4200 + 2520 = 6720$

Q.78) (11.99) $1/3 \times 124.989 + 407.05 / 10.98 = ?$

- (a) 537
- (b) 425
- (c) 754
- (d) 224
- (e) 256

Answer – (a)

Explanation -

This is a question of simplification and approximation where we can take the approximate values of the numbers given.

$12/3 \times 125 + 407/11 = 4 \times 125 + 37 = 500 + 37 = 537$

Q.79) $864.02 / 3.99 + 38.05 / 18.98 \times 110.01 = ??$

- (a) 330
- (b) 452
- (c) 395
- (d) 436
- (e) 334

Answer – (d)

Explanation -

This is a question of simplification and approximation where we can take the approximate values of the numbers given.

$864/4 + 38/19 \times 110 = 216 + 2 \times 110 = 216 + 220 = 436$

Q.80) $74.998 + 19.99\% \text{ of } 1650.01 / (899.99)^{0.5} = ??$

- (a) 205
- (b) 154
- (c) 86
- (d) 102
- (e) 98

Answer – (c)

Explanation -

This is a question of simplification and approximation where we can take the approximate values of the numbers given.

$$75 + 20\% \times 1650 / 900^{0.5} = 75 + 330/30 = 75 + 11 = 86$$

Q.81) If a boat travels 40 km upstream, it takes 3 hours 12 minutes. Speed of stream is 3 kmph. If the speed of boat in still water is increased by 20%, what is the time taken to cover 54 km downstream?

- (a) 1 hour 30 min
- (b) 1 hour 20 min
- (c) 2 hour 30 min
- (d) 3 hour 15 min
- (e) 2 hour

Answer – (c)

Explanation -

Speed of stream = 3 kmph

Upstream speed = speed of boat in still water – speed of stream

$$3 \text{ hours } 12 \text{ minutes} = 3 + 12/60 = 3 + 1/5 = 16/5 \text{ hours}$$

$$\text{Upstream speed} = 40 / (16/5) = 200/16 = 25/2 = 12.5 \text{ kmph}$$

$$\text{Speed of boat in still water} = 12.5 + 3 = 15.5 \text{ kmph}$$

$$\text{Increased speed of boat} = 15.5 \times 1.2 = 18.6 \text{ kmph}$$

Downstream speed = speed of boat in still water + speed of stream

$$\text{Downstream speed} = 18.6 + 3 = 21.6 \text{ kmph}$$

$$\text{Time taken} = \text{distance/speed} = 54/21.6 = 2.5 \text{ hours or } 2 \text{ hours and } 30 \text{ minutes}$$

Q.82) Find out the wrong number in the below given series:

217, 267, 304, 330, 348, 357

- (a) 357
- (b) 348
- (c) 330
- (d) 304
- (e) 267

Answer – (b)

Explanation -

$$267 - 217 = 50 = 7^2 + 1$$

$$304 - 267 = 37 = 6^2 + 1$$

$$330 - 304 = 26 = 5^2 + 1$$

$$348 - 330 = 18 = 4^2 + 2 \text{ (so, 348 is the wrong term; it should have been 347)}$$

$$357 - 347 = 10 = 3^2 + 1$$

Q.83) Find out the wrong number in the below series:

177, 190, 205, 224, 249, 283

- (a) 224
- (b) 190
- (c) 249
- (d) 283
- (e) 205

Answer – (d)

Explanation -

$$177 + 13 = 190$$

$$190 + 15 (13 + 2) = 205$$

$$205 + 19 (15 + 4) = 224$$

$$224 + 25 (19 + 6) = 249$$

$$249 + 33 (25 + 8) = 282$$

Q.84) Find out the wrong number:

74, 92, 115, 143, 176, 217, 257

(a) 115

(b) 176

(c) 257

(d) 143

(e) 217

Answer – (e)

Explanation -

$$92 - 74 = 18$$

$$115 - 92 = 23$$

$$143 - 115 = 28$$

$$176 - 143 = 33$$

$$214 - 176 = 38 \text{ (so, 217 is the wrong term)}$$

$$257 - 214 = 43$$

Instructions for Q.85 to Q.90

Consider the below table which contains data about male and female population in the year 2019 in three towns namely A, B and C.

Town (2019)	Difference between male and female population	Ratio between male and female
A	15000	7:13
B	20000	6:1
C	40000	11:3

Q.85) In 2020, number of males in town B was 80% more than number of females in town C in 2019. What was the percentage increase in number of males in town B from 2019 to 2020?

(a) 12.5

(b) 20.5

(c) 8.5

(d) 18.5

(e) 16.5

Answer – (a)

Explanation -

If we assume that male population is $7a$ and female population is $13a$ in town A in 2019, then

$$13a - 7a = 6a = 15000$$

$$\text{So, } a = 2500$$

$$\text{Male population in town A} = 7a = 17500$$

$$\text{Female population in town A} = 13a = 32500$$

Similarly, assume male population in town B is $6b$ and female population is b , then

$$6b - b = 5b = 20,000$$

$$\text{So, } b = 4,000$$

$$\text{Male population in town B} = 6b = 24,000$$

$$\text{Female population in town B} = b = 4,000$$

Finally, assume male population in town C is $11c$ and female population is $3c$, then

$$11c - 3c = 8c = 40,000$$

$$\text{So, } c = 5,000$$

$$\text{Male population in town C} = 11c = 55,000$$

$$\text{Female population in town C} = 3c = 15,000$$

Now,

$$\text{Number of males in B in 2020} = 1.8 \times (\text{number of females in C in 2019})$$

$$\text{Number of males in B in 2020} = 1.8 \times 15,000 = 27,000$$

$$\text{Percentage increase in males in B from 2019 to 2020} = (27,000 - 24,000) / 24,000 = 12.5\%$$

Q.86) Population of males in town D is 13000. Population of females in town D is equal to the average of population of males in A, B, C, D. What is the population of females in D?

- (a) 30475
- (b) 27375
- (c) 26455
- (d) 28915
- (e) 25295

Answer – (b)

Explanation -

$$\text{Total population of males in A, B, C and D} = 17,500 + 24,000 + 55,000 + 13,000 = 1,09,500$$

$$\text{Total female population} = 1,09,500 / 4 = 27375$$

Q.87) What is the difference between total males in town A & C together and females in town C?

- (a) 65700
- (b) 57500
- (c) 62100
- (d) 58900
- (e) 45300

Answer – (b)

Explanation -

$$\text{Total males in A and C} = 17500 + 55000 = 72500$$

$$\text{Total females in C} = 15000$$

$$\text{Required difference} = 72500 - 15000 = 57500$$

Q.88) 5000 males from town C work in an organization and the remaining work in a farm. 20% of males in town C who work in farm like coffee, and the remaining like tea. What is the number of males from town C who work in farm and like tea?

- (a) 38000
- (b) 30000
- (c) 56000
- (d) 40000
- (e) 10000

Answer – (d)

Explanation -

Males from town C who work in farm = $55,000 - 5,000 = 50,000$

Males working in farm who like tea = $80\% \times 50,000 = 40,000$

Q.89) Number of females in town A is what percentage more than number of females in town C?

- (a) 117
- (b) 180
- (c) 84
- (d) 42
- (e) 158

Answer – (a)

Explanation -

Females in town A = 32500

Females in town C = 15000

Required percentage = $(32500 - 15000)/15000 \times 100 = 116.17\% \sim 117\%$

Q.90) The ratio between number of females in town B and number of males in town E is 8:17. What is the ratio between number of males in town E and number of males in town A?

- (a) 19:35
- (b) 17:35
- (c) 17:33
- (d) 13:35
- (e) 15:37

Answer – (b)

Explanation -

Number of females in B = 4000

Number of males in E = $17/8 \times 4000 = 8500$

Number of males in A = 17,500

Required ratio = males in E : males in A = $8,500 : 17,500 = 17 : 35$



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