

Dell Aptitude Questions and Answers with Explanation



1. A batsman in his 17th innings makes a score of 85 and thereby increasing his average by 3. What is his average after the 17th innings?

- A. 34
- B. 35
- C. 36
- D. 37

Answer - D. 37

Explanation:

According to the given data, we have arranged

$$16x + 85 = 17(x + 3)$$

$$x = 34 + 3 = 37$$

2. The average age of P and Q 10 years ago was 20. The average age of P, Q, and R today is 30, so what will be the age of R after 5 years.

- A. 25
- B. 35
- C. 45
- D. 50

Answer – B. 35

Explanation:

$$P+Q = 60.$$

$$P, Q, R = 90$$

$$\text{so Age of R} = 30+5 = 35$$

3. The average salary of the entire staff in an office is Rs 250 per month. The average salary of officers is Rs 520 and that of non-officers is Rs. 200. If the number of officers is 15, then find the number of non-officers in the office

- A. 56
- B. 81
- C. 87
- D. 823

Answer – B. 81

Explanation:

Let us assume, the required number of non-officers = x

$$200x + 520 \times 15 = 250 (15 + x)$$

$$250x - 200x = 520 \times 15 - 250 \times 15$$

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$$50x = 4050$$

$$x = 81$$

4. The average age of a group of persons going for a tour to Shimla is 22 years. 25 new persons with an average age of 10 years join the group and their average age becomes 12 years. The number of persons initially going for a tour is?

- A. 5
- B. 7
- C. 8
- D. 9

Answer – A. 5

Explanation:

An initial number of persons = x

$$= 22x + 25 * 10 - 12(x + 25)$$

$$= 22x + 250 - 12x - 300$$

$$10x = 50$$

$$x = 5$$

5. A circular wire of radius 56 cm is cut and bent in the form of a rectangle whose sides are in the ratio of 6:5. The smaller side of the rectangle is

- A. 70 cm
- B. 75 cm
- C. 80 cm
- D. 85 cm

Answer – C. 80 cm

Explanation:

The perimeter of the circle, that is, the rectangle is,

$$P = 2\pi r = 2 * \frac{22}{7} * 56 = 16 \times 22 \text{ cm.}$$

Let us assume the actual length and breadth of the rectangle be, $6x$ and $5x$

So perimeter will be,

$$P = 2(6x + 5x) = 22x$$

$$16 \times 22 = 22x$$

Therefore, $x = 16$.

Finally, The smaller side or breadth = $5x = 80 \text{ cm}$

6. The length of a rectangular plot is 10 meters more than its breadth. If the cost of fencing the plot @ 26.50 per meter is Rs. 5300, what is the length of the plot in meters?

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- A. 50
- B. 55
- C. 60
- D. 65

Answer – B. 55

Explanation:

Let us assume, breadth = x metres.

Then, length = (x + 20) metres.

Perimeter = $5300/26.50 = 200$ m

$2[(x + 10) + x] = 200$

x = 45.

Hence, length = x + 10 = 55 m.

7. A rectangular field has its length and breadth in the ratio 6:5 respectively. A man riding bicycle complete one lap of this field along its perimeter at the speed of 12kmph in 1.5m. What is the area of the field?

- A. 5468
- B. 5460
- C. 5345
- D. 5487

Answer – A. 5468

Explanation:

Speed = $12 \times 5/18 = 3.3$ m/s

Perimeter = Distance

$2(6x+5x) = 90 \times 3.3$

$22x = 297$

X=13.5

Area = $6 \times 13.5 \times 5 \times 13.5 = 5467.5 = 5468$ sq.m

8. The area of the square is three-fifths the area of a rectangle. The length of the rectangle is 25 cm and breadth 10cm less than its length. What is the area of the square?

- A. 12 cm
- B. 15 cm
- C. 17 cm
- D. 20 cm

Answer – B. 15 cm

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Explanation:

Area of rectangle = $25 \times 15 = 375$ sq.cm

Area of square = $3 \times 375 / 5 = 225$ sq.cm = $a \times a$

Side of the square = $a = 15$ cm

9. A solid metallic cylinder of base radius 5 cm and height 7 cm is melted to form cones, each of height 1 cm and base radius 1 mm. Find the number of cones?

- A. 49500
- B. 51500
- C. 52500
- D. 53500

Answer – C. 52500

Explanation:

Number of cones = Volume of Cylinder / Volume of one cone

$$= \pi \times 5^2 \times 7 / (1/3 \pi \times 1/10 \times 1/10 \times 1)$$

$$= 52500$$

10. Four horses are tethered at 4 corners of a square field of side 60 meters so that they just cannot reach one another. The area left ungrazed by the horses is:

- A. 523 m
- B. 612 m
- C. 771 m
- D. 841m

Answer – C. 771 m

Explanation:

Length of the rope = $60/2 = 30$ m

The total area covered by 4 horse = $22 \times 30 \times 30 / 7$

Ungrazed area = Area of Square field – the area covered by 4 horse

$$= 3600 - 2829 = 771 \text{ m}$$

11. 19, 30, 23, 34, 27, ?

- A. 38
- D. 39
- B. 53
- C. 66

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Answer – A. 38

Explanation:

$$23 - 19 = 4$$

$$34 - 30 = 4$$

$$27 - 23 = 4$$

$$38 - 34 = 4$$

12. 52 54 28 30 ? 18 10

A. 14

B. 15

C. 16

D. 18

Answer – C. 16

Explanation:

$$52 / 1 + 2 = 54$$

$$54 / 2 + 1 = 28$$

$$28 / 1 + 2 = 30$$

$$30 / 2 + 1 = 16$$

13. 15 151 1210 ? 29056

A. 6263

B. 7263

C. 5463

D. 4263

Answer – B. 7263

Explanation:

$$15 * 10 + 1 = 151$$

$$151 * 8 + 2 = 1210$$

$$1210 * 6 + 3 = 7263$$

$$7263 * 4 + 4 = 29056$$

14. 3 7 12 27 50 ?

A. 105

B. 100

C. 95

D. 85

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Answer – D. 105

Explanation:

$$3 * 2 + 1 = 7$$

$$7 * 2 - 2 = 12$$

$$12 * 2 + 3 = 27$$

$$27 * 2 - 4 = 50$$

$$50 * 2 + 5 = 105$$

15. 10 52 253 1006 3013 ?

A. 5022

B. 6022

C. 7022

D. 8022

Answer – B. 6022

Explanation:

$$10 * 6 - 8 = 52$$

$$52 * 5 - 7 = 253$$

$$253 * 4 - 6 = 1006$$

$$1006 * 3 - 5 = 3013$$

$$3013 * 2 - 4 = 6022$$

16. The ratio between the M and N age is 7: 9. If the difference between the present ages of Q and P's age after 4 years is 2 then what is the total of the present ages of P and Q?

A. 42

B. 44

C. 46

D. 48

Answer – D. 48

Explanation:

let the age of N is $9x$ and that of A is $7x$. So

$$9x - (7x + 4) = 2, x = 3$$

$$\text{So, the sum will be} = 27 + 21 = 48$$

17. Two trains are traveling in the same direction with 60 km/hr and 75 km/hr respectively. The faster train crosses a man sitting in the slower train in 30 sec. find the length of the faster train.

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- A. 140 meter
- B. 150 meter
- C. 100 meter
- D. 125 meter

Answer – D. 125 meter

Explanation:

$$L = 15 \times 5 / 18 \times 30 = 125 \text{ meter}$$

18. Two stations A and B are 150 km apart from each other. One train starts from A at 6 AM at a speed of 30 km/hr and travels towards B. Another train starts from station B at 7 AM at a speed of 20 km/hr. At what time they will meet.

- A. 7: 34 AM
- B. 8: 34 AM
- C. 9: 34 AM
- D. 10: 34 AM

Answer – C. 9:24 AM

Explanation:

Distance travel by first train in one hour = 30

Now, the distance remains 120 km only.

$$x/30 = (120 - x)/20, \text{ so we get } x = 72 \text{ km}$$

Now, time = $(30 + 72)/30 = 3 \text{ hrs and } 24 \text{ minutes i.e. } 9: 24 \text{ am}$

19. A boat can travel 4.2 km upstream in 14 min. If the ratio of the speed of the boat in still water to the speed of the stream is 7:1. How much time will the boat take to cover 17.6 km downstream?

- A. 32 min
- B. 38 min
- C. 44 min
- D. 48 min

Answer - C. 44 min

Explanation:

$$\text{Speed} = 7x: x$$

$$\text{Downstream} = 8x; \text{ upstream} = 6x$$

$$\text{Upstream speed} = 4.2 \times 60 / 14 = 18 \text{ kmph}$$

$$6x = 18$$

$$X = 3$$

$$\text{Downstream} = 8 \times 3 = 24$$

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Time taken for 17.6 km = $17.6 \times 60 / 24 = 44$ min

20. A man swims downstream 40 km in 5 hours and upstream 24 km in 2 hours. Find his speed in still water ?

- A. 10 kmph
- B. 15 kmph
- C. 8 kmph
- D. 12 kmph

Answer - A. 10 kmph

Explanation:

Downstream = $40/5 = 8$ kmph

Upstream = $24/2 = 12$ kmph

Speed in still water = $1/2 (8 + 12) = 10$ kmph