Find the percentage profit earned by the...



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MODEL QUESTIONS

Directions (Q.No.1-5): What will come in place of the question mark (?) in the following question?

- 1. $\frac{3}{7}$ of $329 + \frac{4}{11}$ of $2530 = \sqrt{?} + 894$
- a) 28899
- b) 29899 d) 27889
- c) 27789
- e) None of these **2.** 4376 + 3209 - 1784 + 97 = 3125+?
 - a) 2713
- b) 2743

d) 2793

- c) 2773
- e) 2737 3. $\sqrt{?} + 14 = \sqrt{2601}$
 - a) 1521
 - b) 1369
 - c) 1225

e) 1296

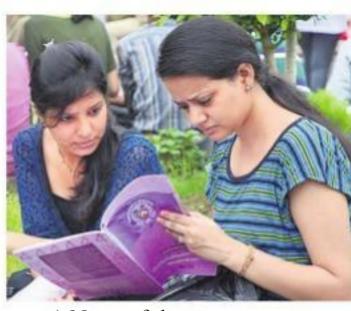
- d) 961
- **4.** 85% of 420 +? % of 1080 = 735
 - a) 25
 - b) 30 d) 40
 - c) 35 e) 45
- $\frac{7}{5}$ of $58 + \frac{3}{8}$ of 139.2 = ?
- a) 133.4
- b) 137.2

d) 131.6

- c) 127.8
- e) None of these
- **6.** Kishan has some hens and some cows. If the total number of animal-heads are 59 and the total

- number of feet are 190, how many cows does Kishan have?
- a) 36
 - b) 32 d) 42
- c) 23
- e) None of these
- 7. A train covers the first 160 km at a speed of 120 km/h, another 160 km at 140 km/h and the last 160
- km at 80 km/h. Find the average speed of the train for the entire journey.
 - a) $58\frac{17}{47}$ km/h
 - b) $75\frac{15}{47}$ km/h c) $97\frac{13}{47}$ km/h
 - d) $107\frac{11}{47}$ km/h
 - e) None of these
- **8.** Rohit has some 50 paisa coins, some Rs. 2 coins, some Rs.1 coins and some Rs. 5 coins. The value of all the coins is 50. Number of 2 coins is 5 more than that of the 5 coins. 50 paise coins are double in number than Rs.1 coins. Value of 50 paise coins and 1 coins is Rs. 26. How many Rs. 2 coins does he have?
 - b) 2 a) 4 d) Cannot be determined
 - e) None of these
- 9. In 1 kg mixture of sand and iron, 20% is iron. How much sand should be added, so that the proportion of iron becomes 5%?
 - a) 3 kg
- b) 4 gm
- c) 5 gm
- d) 6 kg

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- e) None of these
- **10.** P, Q and R have a certain amount of money with themselves. Q has 25% more than what P has and R has 1/5th of what Q has. If P, Q and R together have Rs. 150, then how much money (in Rs.) does P alone have?
 - b) 70 a) 40
 - c) 80
 - d) 60
 - e) 50
- 11. Karan starts a business by investing Rs. 60000. Six months

- later, Shirish joins him by investing Rs. 1,00,000. At the end of one year from commencement of the business, they earn a profit of Rs. 1,51,800. What is the Shirish's share in the profit?
- a) Rs. 55200 b) Rs. 82800 c) Rs. 62500 d) Rs. 96600
- e) None of these
- 12. The price of a jewel, passing through three hands, rises on the whole by 65%. If the first and the second sellers earned 20% and 25% profit respectively, find the percentage profit earned by the third seller?
 - a) 8% b) 20%
 - c) 25%
- d) 10%
- e) None of these
- 13. Naresh purchased a TV set for Rs. 11250 after getting discount of 10% on the labelled price. He spent Rs. 150 on transport and Rs. 800 on installation. At what price should it be sold, so that the profit earned would have been 15%, if no discount was offered? a) Rs. 12938
 - b) Rs. 14030 c) Rs. 13450
- d) Rs. 15467 e) None of these 14. If it takes A, 4 days to dig a certain ditch, where as B can dig it in 8 days and A, B, C together can dig it in $2^{2}/_{7}$ days, how long C alone would take to dig it?
 - a) 8 days b) 4 days

- d) 12 days c) 6 days e) 16 days
- 15. A invested in a certain scheme at the rate of 5% per annum and B at 3% each for 2 yr. If the total sum invested by A and B is Rs. 4000 and the simple interest received by both is same, then find the amount invested by A.
 - a) Rs. 1300 b) Rs. 1500
 - c) Rs. 2500
- d) Rs. 2700
 - e) Rs. 2100

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Directions (Q.no.16-20): What will come in place of the question mark '?' in the following question?

- **16.** 4000, 2000, 1000, 500, 250, 125,?
 - a) 80
- b) 65
- c) 62.5 d) 83.5 e) None of these
- **17.** 2, 14, 84, 420, 1680, 5040,? a) 9940
 - b) 7680

b) 40

- c) 10080 d) 5040 e) None of these
- **18.** 22, 23, 27, 36, 52, 77, ? b) 109
 - a) 111
 - c) 113 d) 117
 - e) 115
- **19.** 15, 16, 14, 17, 13, 18, ?
 - b) 20 a) 24 d) 12
 - c) 16 e) None of these
- **20.** 5, 10, 15, 20, 25, ?
 - a) 35
 - c) 25 d) 20
 - e) None of these

- **Solutions**
- 1. d;
 - $\frac{3}{7}$ of $329 + \frac{4}{11}$ of $2530 = \sqrt{?} + 894$ \Rightarrow 141 + 920 = $\sqrt{?}$ + 894
- $\Rightarrow 1061 = \sqrt{?} + 894$ $\Rightarrow \sqrt{?} = 1061 - 894 = 167$ \Rightarrow ? = 167 × 167 = 27889
- 2. c;
 - 4376+3209+97-1784=3125+? \Rightarrow 7682 - 1784 = 3125 + ?
- \therefore ? = 5898 3125 = 2773
 - $\sqrt{?} + 14 = \sqrt{2601}$ $\Rightarrow \sqrt{?} + 14 = 51$
 - $\Rightarrow \sqrt{?} = 51 14 = 37$ \therefore ? = 37 × 37 = 1369

 \Rightarrow 5898 - 3125 + ?

- - $\frac{420 \times 85}{100} + \frac{1080 \times ?}{100} = 735$ $\Rightarrow 357 + \frac{108 \times ?}{10} = 735$ $\Rightarrow \frac{108 \times ?}{10} = 735 - 357 = 378$
- 5. a;
 - 81.2 + 52.2 = 133.4

 $\therefore ? = \frac{378 \times 10}{108} = 35$

6. a;

A hen has two legs whereas a cow has four legs. But both of them have one head each. Let Kishan has x cows. \therefore Number of hens = 59 - x

- According to the question, $4 \times x + (59 - x) \times 2 = 190$
- 4x + 118 2x = 1902x = 190 - 118 = 72 $x = \frac{72}{2} = 36$
- 7. d; Average speed
 - $3\times120\times140\times80$ $120 \times 140 + 140 \times 80 + 80 \times 120$
 - $3\times120\times140\times80$ $\overline{16800 + 11200 + 9600}$
 - = 4032000
 - $=\frac{5040}{47}=107\frac{11}{47}$ km / h
 - Let the number of Rs. 2 coins
 - = x, then number of Rs. 5 coins = x - 5
 - According to the question, 2x + 5(x - 5) = 50 - 26
 - 2x + 5x 25 = 247x = 24 + 25 = 49
 - $x = \frac{49}{7} = 7$
 - Amount of iron in 1 kg mixture = 20% of 1000
 - $= \frac{20 \times 1000}{100} = 200 \text{ gm}$
 - :. Amount of sand in mixture = (1000 - 200) = 800 gmNow, let the total mixture is x

According to the question, 5%

- of x = 200 gm $\Rightarrow \frac{5 \times x}{100} = 200$
- $\therefore x = \frac{200 \times 100}{5} = \frac{20000}{5}$
- = 4000 gm
- :. Required answer
- =4000-1000= 3000 gm
- = 3 kg
- 10. d;

Amount with P = Rs. P (let)

- ∴ Amount with
- $Q = Rs. \frac{125P}{100} = Rs. \frac{5P}{4}$ Amount with R = Rs.
- $\left(\frac{5P}{4} \times \frac{1}{5}\right) = Rs.\frac{P}{4}$ According to the question,
- $\therefore P + \frac{5P}{4} + \frac{P}{4} = 150$ $\Rightarrow \frac{4P + 5P + P}{4} = 150$
- \Rightarrow 10P = 150 × 4
- $\therefore P = \frac{150 \times 4}{10} = Rs. 60$
- 11. e; Ratio of the profit = Ratio of the equivalent capitals of Karan and Shirish for 1 month
 - $= 60,000 \times 12: 1,00,000 \times 6$ = 7,20,000: 6,00,000 = 6:5:. Shirish's share in the profit

- $= Rs. \left(\frac{5}{11} \times 151800 \right)$
- = Rs. 69000
- 12. d; Let the original price of the jewel be Rs. P and let the profit

earned by the third seller be x%.

- Then, (100 + x)% of 125% of 120% of P. = 165% of P $= \left[\frac{(100 + x)}{100} \times \frac{125}{100} \times \frac{120}{100} \times P \right]$
- $= \left(\frac{165}{100} \times P\right)$ $\Rightarrow (100+x) = \left(\frac{165 \times 100 \times 100}{125 \times 120}\right) = 110$
- $\Rightarrow x = 10\%$
- 13. b;
- CP of TV for Naresh = 11250 + 150 + 800
- = Rs. 12200:. Required selling price $=12200 \times \frac{115}{100}$
- = Rs. 14030
- 14. e;

According to the question,

- A's one day work $= \frac{1}{2}$
- B's one day work = $\frac{1}{8}$ (A + B)'s one day work $=\frac{1}{4}+\frac{1}{8}=\frac{3}{8}$
- Similarly, (A + B + C)'s one day

- work = $\frac{7}{16}$
- ∴ C's one day work
- Therefore, C can complete the whole work in 16 days.
- 15. b;
 - A's investment = Rs. x
 - B's investment = Rs. (4000 x) $SI = \frac{Principal \times Time \times Rate}{}$
 - 100 According to the question, $\frac{x \times 5 \times 2}{100} = \frac{(4000 - x) \times 3 \times 2}{100}$
 - \Rightarrow 5x = 12000 3x $\Rightarrow 8x = 12000$

 $x = \frac{12000}{8} = \text{Rs. } 1500$

- 16. c;
 - 4000 2000 1000 500 250 125 **62.5** ÷2 ÷2 ÷2 ÷2 ÷2
- 2 14 84 420 1680 5040 **10080** ×7 ×6 ×5 ×4 ×3 ×2

17. c;

- 18. c; 22 23 27 36 52 77 **113** +1 +4 +9 +16 +25 +36 +3 +5 +7 +9 +11
- 19. d;
- +1 +1 15 16 14 17 13 18 **12** -1 -1 -1

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