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## AMCAT Quantitative Ability Previous Papers-9

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81. For irrigational purposes, a farmer uses a tank of water. He uses a pipe during night to fill the tank, so that he could use the tank of water in the morning to irrigate his farm. The pipe fills the tank in 3 hours but on the particular day, because of a leak in the tank, the pipe takes 4.5 hours to fill it. In how many hours can the tank be completely emptied by the leak alone?  
A. 6 B. 9 C. 1.5 D. Data insufficient

Solution: pipe one hour capacity is  $\frac{1}{3}$

$$\frac{1}{3} + x = \frac{2}{9}$$

$$x = 9$$

Answer is 9 hours.

82. The printed price on a book is RS. 400, a bookseller offers a 10% discount on it. If he still earns a profit of 12%, then the cost price of the book is:

A. RS. 280 B. RS. 352 C. RS. 360  
D. RS. 300

$$S.P = 360 \text{ Rs.}$$

$$\text{If Profit} = 12\% \text{ then } 1.12 * C.P = S.P$$

$$1.12 * C.P = 360$$

$$C.P = 321.43 \text{ Rs.}$$

$$\text{And If Profit} = 12 \text{ Rs. then } C.P = 348 \text{ RS.}$$

As there is ambiguity in question.

83. If  $r = at^2$  and  $s = 2at$ , then the relation among s, r and a is:

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- A.  $s^2 = 4ar$       B.  $s = ar$       C.  $s^2 = ar$   
D. None of the above

Solution:

$$r = at^2$$

$$s = 2at$$

$$\text{therefore } t = s/2a$$

$$r = as^2/4a^2$$

$$s^2 = 4ar$$

84. Amit bought 10 cycles for Rs1750 each. He sold four cycles for Rs8400, three for 1900 each. At what price he should sell remaining cycles so as to earn an average profit of Rs320 per cycle?

1900      2000      1800      2050      2200

Solution: 10 cycles cost price + 10 cycles profit = 10 cycles selling price

$$10(1750) + 10(320) = 8400 + 3(1900) + 3(x)$$

solve above equation then  $x = 2200$

85. Out of 26, 13, and 34, which two numbers are co-primes?

26 and 14      13 and 34      26 and 34      None of the pairs are co primes

Ans: Two numbers are said to be co-prime when their GCD is 1.

$$\text{GCD}(26, 13) = 13$$

$$\text{GCD}(26, 34) = 2$$

$$\text{GCD}(13, 34) = 1$$

SO answer is 13 and 34.

86. A man earns 24,000 per month. He spends one-third of his income on personal expenditure. Half of the remaining income is invested in a scheme for 15% interest per annum. After investing half of the remaining income is invested in a scheme which gives 10% income per annum. The remaining lies in a bank where it earns an interest of 4% per annum. The effective rate of interest earned by the man on his investments by the end of the year is?

19%      10%      11%      29%      12.33%

Solution:

$$\text{amount remaining} = 24000 - 24000/3 = 16000$$

$$1. 16000/2 = 8000 \quad \text{SI} = \text{PRT}/100 = 8000 \times 15 \times 1/100 = 1200$$

$$2. 8000/2 = 4000 \quad \text{SI} = 4000 \times 10 \times 1/100 = 400$$

$$3. 4000 \quad \text{SI} = 4000 \times 4 \times 1/100 = 160$$

$$\text{adding total interest} = 1200 + 400 + 160 = 1760$$

$$\text{SI} = \text{PRT}/100 \quad 1760 = 16000 \times R \times 1/100$$

Solving this  $R = 11\%$  Ans.....

87) A person forgets the last two digits of user ID for a website. He remembers that both digits are odd. What is the probability of him typing the correct last digits by randomly typing 2 odd digits?

A) 1/25      B) 1/5      C) 1/2      D) 2/5

Ans: guessing one odd digit is 1/5

guessing two odd digits is  $(1/5) \times (1/5) = 1/25$

88) Every number of housing society contributed as much as there are numbers of members in the society. The president added Rs. 150 extra from to take the total of Rs. 2,650. How many members are there in the housing society?

A) 25      B) 50      C) 60      D) 35

$$\text{Ans: } 2650 - 150 = 2500$$

$$50 \times 50 = 2500$$

ans is 50.

89) Given that the interest is only earned on principal, if an investment of Rs 1000.00 amounts to Rs 1440.00 in two years, then what is the rate of interest earned?

A) 20%      B) 22%      C) 21%      D) 11%      E) 44%

Solution: Interest for two years is 440

Interest for one year is 220

Apply Simple interest formula.  $(1000 \times 1 \times r) / 100 = 220$

$$r = 22\%$$

90) Gita and Rashmi were playing ludo. Game starts when one gets 6 in two consecutive throws of dice. What is the probability that Gita can start the game in first chance?

A)1/6    B)1/36    C)5/36    D)5/6

Solution: Getting 6 is 1/6  
getting two 6's is  $(1/6) * (1/6) = 1/36$

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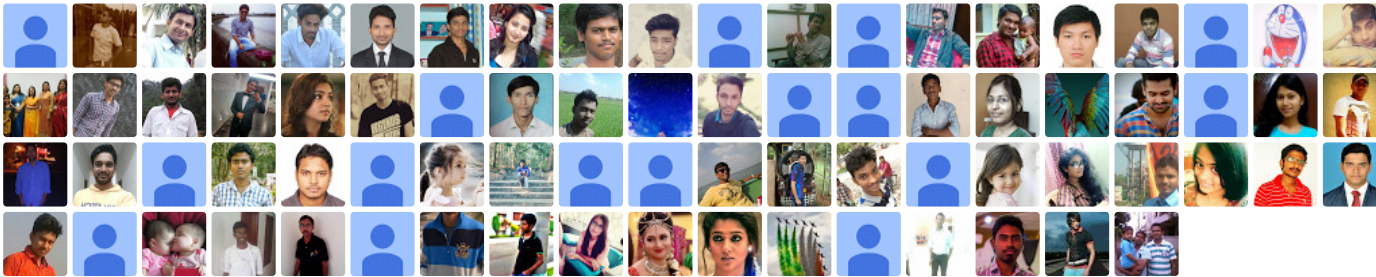
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