













FOR MAH CET FOR BBA BBM BMS BCA & CUET UG PAPER 3 GENERAL TEST

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What is the value of $48 \div 12 \times (4 \div 2)$?

(A) 1

(B) 8

(C) 2

(D) 16

2

48 × 2

BODMAS

John (X)

Bracket

Simplification

Simplify:
$$\frac{541381+14}{4} = \frac{25}{8} \div \frac{5}{4} = \frac{5}{4}$$

$$\boxed{5} \quad 5\frac{1}{2}$$

$$\left(6\frac{1}{2}\right)$$

$$\frac{21}{4} + \frac{5^{12}}{2^{12}} - \frac{5}{4} = \frac{21 + 10 - 5}{4} = \frac{26}{4} = \frac{13}{2}$$



What is the value of $100 \times 2 - [300 - (100 - 50)]$?

- (A) 50
- (B) 100
- (C) 150
- (D) 200



What is the value of 50% of 80+25% of 120?

(A) 60 (Z) 70

(D) 90



Simplify: 42

(4) 3/4

- (B) 1/2
- (C) 1
- (D) 5/4

$$\frac{3}{4}$$
 + $\frac{1}{2}$ - $\frac{1}{4}$ $\frac{2}{1}$



What is the smallest prime number?

(A) 0

(B) 1 -> neither prome nor composite (C) 2 -> even prime no./ Smallest prime.

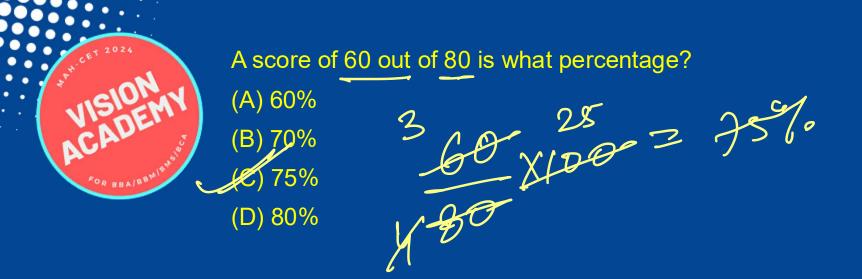
(D) 3 mallest odd prime no.



What is 40% of 200?

- (A) 40
- (B) 60
- (0)80
- (D) 100

40 × 200





A number decreased by 20% becomes 160. What is the original number?

- (A) 180
- (B) 192
- 10 200
- (D) 210

$$\chi - 20\% \text{ ob} \chi = 160$$

$$\chi - \frac{20}{100} \chi \chi = 160$$

$$\chi - 20\chi = 160$$

$$\chi = 200$$



If x is 80% of y, what percentage is y of x?

- (A) 100%
- (B) 110%
- (C) 120%
- (D) 125%

$$\chi = \frac{80}{100} y$$

$$y = \frac{100}{90} \chi = \frac{5}{4} \chi$$



Find the average of the numbers: 10, 15, 20, 25, 30.

- (A) 15

- (D) 18

$$= \underbrace{100}_{5} = \underbrace{20}_{20}$$



The average weight of 10 students is 55 kg. If a student weighing 65 kg leaves the group, what is the average weight of the remaining 9 students?

- (A) 54 kg
- (B) 54.5 kg

53.89 kg

(D) 55 kg

Arg of
$$9 = \frac{485}{9} = 53$$



The average marks of 30 students in Section A is 60, and the average marks of 20 students in Section B is 70. What is the average marks of all students in both sections?

- (A) 64
- (B) 65
- (C)66
- (D) 68

Argof
$$A = \frac{1}{30} = 60$$
 $T(A) = 60 \times 30$ $= 1800$

$$T(A) = 60 \times 30$$

$$=\frac{3200}{50}=66$$



The average of 11 results is 50. If the average of the first 6 results is 49 and that of the last 6 results is 52, find the sixth result.

(A) 50

(B).52

(C) 56

(D) 60

Total of last
$$6 = 6752 = 312$$



If A:B=3:4 and B:C=8:9, find A:C.

(A) 1:2

(B) 2:3

(C) 3:2

(D) 1:3

$$A:C = 6:9$$
 $= 2:3$



Two numbers are in the ratio 4:5. If their sum is 81, find the numbers.

- (A) 36, 45
- (B) 40, 41
- (C) 32, 49
- (D) 28, 53

$$\frac{\chi_{-}}{4} = \frac{4}{5} \Rightarrow 5\chi = 41$$

$$\Rightarrow$$
 21+4=81
42+44=324

$$5x-4y=0$$

$$9n = 324$$

VISION VISION ACADEMY

The ratio of the ages of Ram and Shyam is 5:7. If the sum of their ages is 48 years, what is Ram's age?

- (A) 15 years
- 20 years
- (C) 25 years
- (D) 28 years

ALAGE SIGN SAME SUB

$$\frac{2}{3} = \frac{5}{7} \implies 7x = 54$$

$$7x - 74 = 0$$

$$5x \quad 2x + 4 = 240$$

$$12x = 240$$

$$x = 240$$

$$12$$

What is the mean proportional between 9 and 16?

a 6

a, b, c are in prop.

- (B) 12.5
- (C) 13
- (D) 14

$$\frac{a}{b} = \frac{b}{c}$$

$$b^2 = ac$$



If a:b=1:2, b:c=3:4, find a:b:c.

- (A) 1:2:4
- (B) 3:6:8
- (C) 1:3:4
- (D) 3:4:8

$$a:b=1:(2)=3:6$$

$$b: c = 3: 4 = 6:8$$

 $x_2: x_2$



An item is sold for Rs. 450 at a loss of 10%. What is the cost price?

NOTE:

- (A) Rs. 400
- (B) Rs. 495
- (C) Rs. 500
- D) Rs. 550

$$\frac{90}{100} CP = 450$$

$$CP = \frac{450}{450} \times 1000$$

$$CP = \frac{450}{450} \times 1000$$

$$CP = 500$$



A shopkeeper marks his goods 20% above the cost price and allows a discount of 10% on the marked price. Find his profit percent.

- (A) 8%
- (B) 10%
- (C) 12%
- (D) 18%

$$(log) = CP$$

$$MP = 120$$

$$MP = 120$$
Discount = 10%
 $SP = 120 - 12 = 10\%$



A man buys an item for Rs. 500 and sells it at a profit of 30%. What is the selling price?

(A) Rs. 530

(D) Rs. 700



A man sells two articles for Rs. 500 each. On one, he gains 25% and on the other, he loses 25%. What is his overall gain or loss percent?

- (A) 6,25% gain
- (F) 6.25% loss
- (C) No profit no loss
- (D) 5% loss



The sum of three consecutive integers is 63. What is the middle integer?

- (A) 20
- **(B)** 21
- (C) 22
- (D) 23

$$x + x + 1 + x + 3 = 63$$

$$3x + 3 = 63$$

$$3x = 63-3$$

$$3x = 60$$

$$\gamma l = 20$$



If one-fourth of a number exceeds its one-fifth by 5, find the number.

- (A) 80
- (B) 90
- (P) 100
- (D) 120

. Entrance

BBA Sam

BLA

BMS

BBM MBAIMUA

$$5n-4n=5$$

$$\chi = 5$$



A father is 30 years older than his son. In 12 years, the father will be three times as old as his son. Find their present ages.

- (A) Father 36, Son 6
- (B) Father 39, Son 9
- (C) Father 42, Son 12
- (D) Father 48, Son 18

$$x = 4 + 30$$

$$21 - y = 30 - (1)$$

$$(\chi + 12) = 3(4+12)$$

$$2112 = 34 + 36$$

Two coins are tossed simultaneously. What is the probability of getting exactly one head?

- (A) 1/4
- (B) 1/3
- (2) 1/2
 - (D) 3/4

$$P(A) = \frac{\eta(A)}{\eta(S)} = \frac{2}{4} = \frac{1}{2}$$



A bag contains 3 red balls and 5 blue balls. What is the probability of drawing a blue ball?

(A) 3/8

(B) 5/8

(C) 3/5

(D) 5/3



The probability of an event happening is 0.6. What is the probability of the event not happening?

- (A) 0.4
- (B) 0.6
- (C) 1
- (D) 0

$$0 \leq P(A) \leq 1$$

possing =
$$(-x)$$



Three coins are tossed. What is the probability of getting exactly two tails?

(A) 1/8

(B) 2/8

(C) 3/8

(D) 4/8

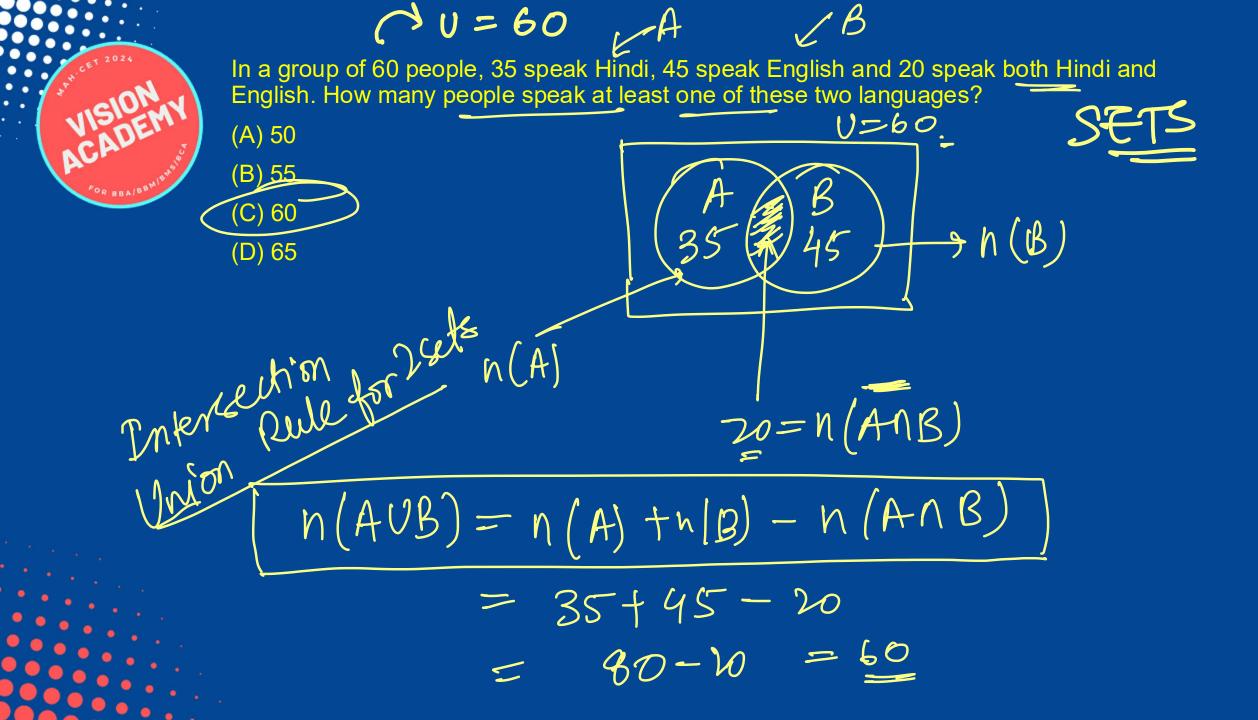
S= SHUU HHT

HTT, THT, TTH,



TTH, TTTS







In a survey, 70% of people like coffee and 40% like tea. If each person likes at least one of the two drinks and 50 people like both, find the total number of people surveyed.

1A

- (A) 100
- (B) 200

 $(D) 500 \\ 10 \% = 50 \\ 100\% = 500$

$$70/.$$
 8
 $407.$ $407.$ $100\% = 9 (AUB)$
 $= 9 = 10\% = 50$
 $9(ANB) = 9 = 9 = 10\% = 50$

$$n(AMB) = n(A) + n(B) - n(AUB)$$

= 70+40-100 = (10-100)



If 18:x::x:8, find the value of x.

- (A) 10

$$\chi^2 = 18 \times 8$$
 $\chi^2 = 144$

$$\chi^2 = |44|$$

$$\chi = 12$$



The age of A and B is in the ratio 1: 3. After 10 years, the ratio of their ages will become 1:2. Find the average of their ages after 20 years.

- (a) 22 (b) 40
- (c) 37 (d) 30

$$\frac{A}{B} = \frac{1}{3}$$

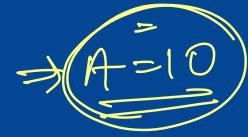
$$\frac{A+10}{2} = \frac{1}{2}$$

$$2(A+10) = B+10$$

 $2A+20 = 3A+10$

$$3A = B$$

$$B = 50$$





Find the average of the first 100 natural numbers.

(a) 50.50 (b) 52.50 (c) 51.50 (d) 49

 $S_{n} = \frac{n}{2} \left[2a + (n-1)d \right]$ Aik

Avg + Arithmetic Progression

$$S_n = \frac{n}{2} [++t_n]$$



Find the average of all prime numbers between 20 and 50.



The average score of a cricketer in three matches is 33 runs and in two other matches, it is 23 runs. Figure the average in all the five matches.

$$T_3 = 33 \times 3$$

$$T_3 = 99$$

$$T_2 = 23 \times 2$$
 $T_2 = 46$

MATTIS

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