QUANT WEEKLY BOOSTER - 19

IDBI BANK

• Topic •

1) IDBI Executive/AM most Expected paper
2) Questions and Solutions
3) Exam strategy/Question selection.
4) Time Management for exam.
5) Important Instructions

SAARTHI EDUCATION
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TIME:- 10:00 am (Friday, 3 Sept 2021)

BY:- RAHUL MISAL

Flow of the Session

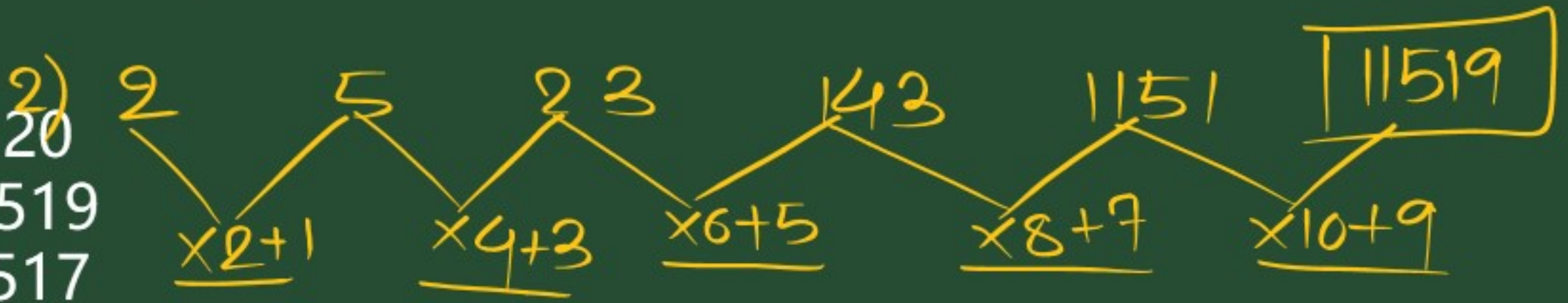
1) About IDBI Bank and Working culture
2) About Executive and Assistant Manager job profile
3) Expected Pattern for both exams
4) Questions and Answer session
5) Questions/Section selection
6) Time Management
7) Important Instructions

1) 281, 18.5, 141, ?, 71, 36,

1. 9.5
(b) 9.25
(c) 10.75
(d) 10
(e) 9.75

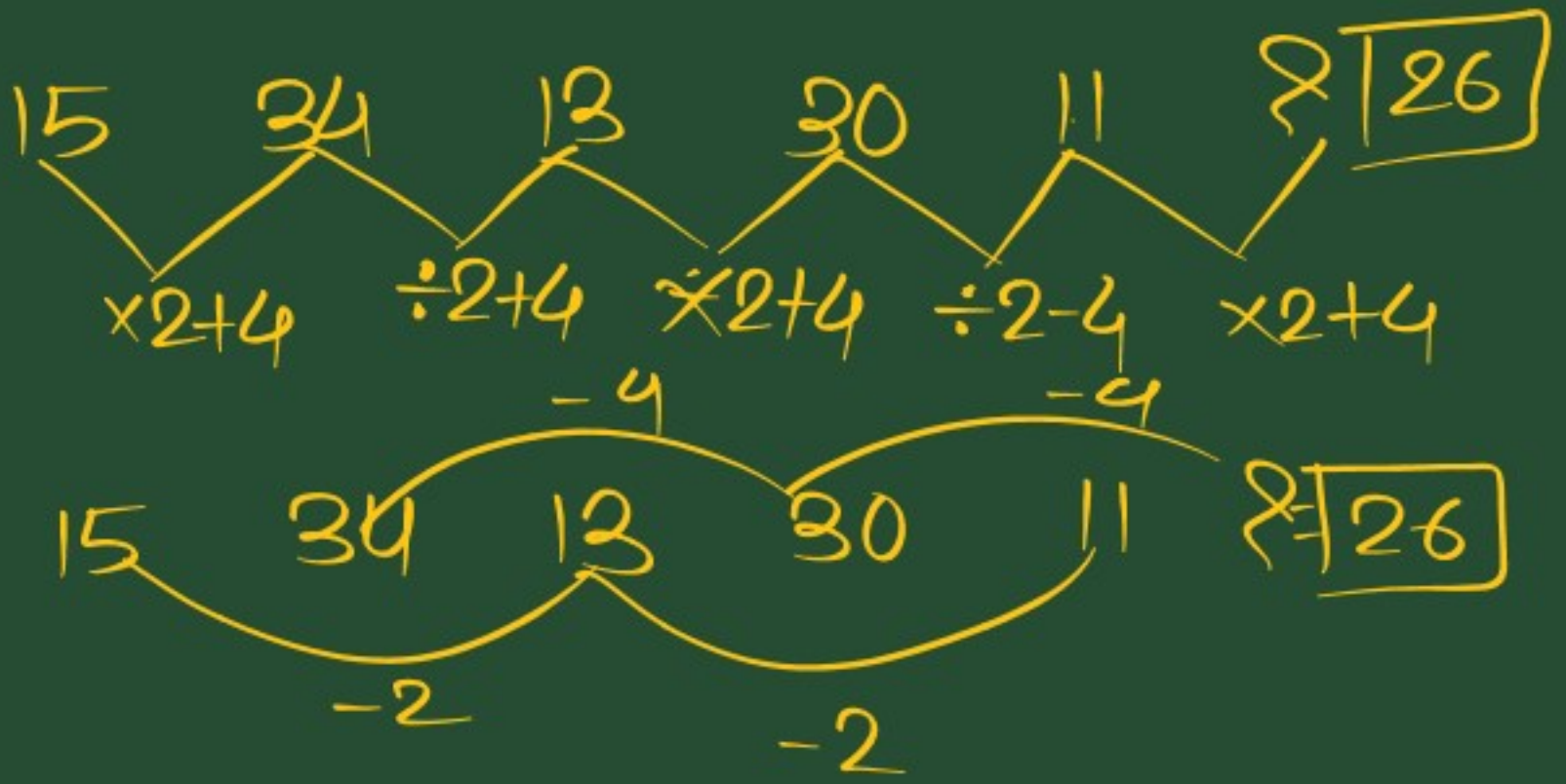
2) 2, 5, 23, 143, 1151, ?

1. 11520
(b) 11519
(c) 11517
(d) 9215
(e) 13823

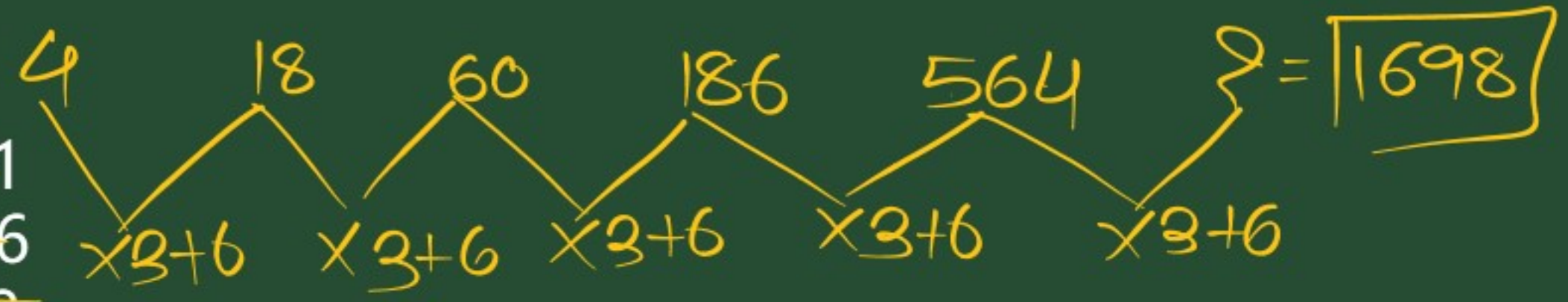


3) 15, 34, 13, 30, 11, ?

(a) 26
(b) 15
(c) 42
(d) 29
(e) 28

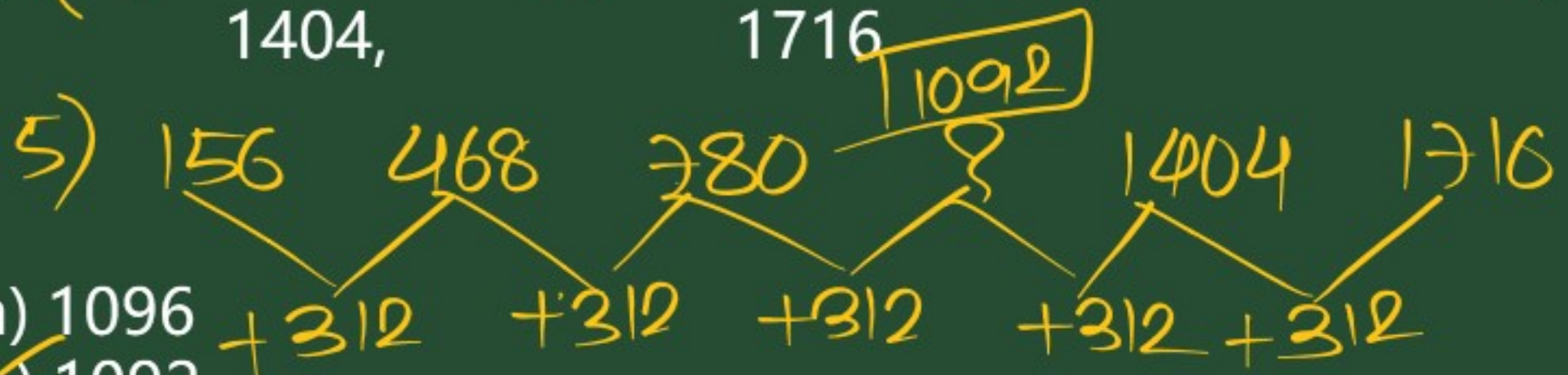


4) 4, 18, 60, 186, 564, ?



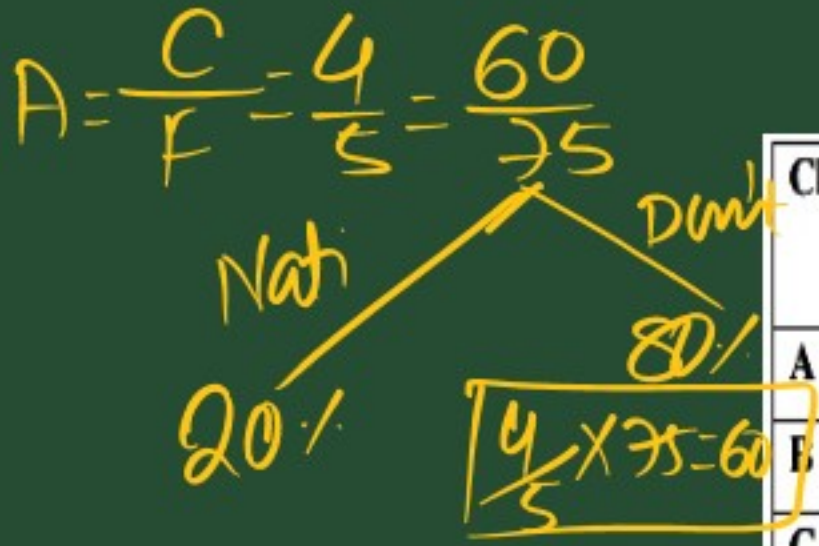
(a) ~~1581~~
(b) ~~1686~~
(c) ~~1498~~
(d) ~~1698~~ → Unit digit / Approx
(e) ~~1689~~

5) 156, 468, 780, ? , 1404, 1716



(a) 1096
(b) 1092
(c) 1290
(d) 9610
(e) 1910

Out of the total number of students who participated in football from class A 20% qualified for national level, then find how many students not qualified for national level who participated in football ?a) 50b) 90 c) 60 d) 45 e) 30



Class	Total students	Ratio of students Cricket :Football	Students who do not play
A	240	4:5	105
B	320	6:5	155
C	280	2:3	85
D	150	4:7	29
E	475	3:4	104

The table shows the total number of students in 5 classes from which some participate in two games i.e. Cricket and Football. It also shows the students who do not participate in games and ratio of students who participate in Cricket and Football.

Find total number of students participated cricket from school A, C and E together ?

a) 258b) ~~297~~c) 304d) 304e) None

$(A+C+E)_{cricket} = [60] + [78] + [159] = \boxed{297}$

Class	Total students	Ratio of students Cricket :Football	Students who do not play
A	240 15	4:5	105
B	320 15	6:5	155
C	280 39	2:3	85
D	150 11	4:7	29
E	475 53	3:4	104

The table shows the total number of students in 5 classes from which some participate in two games i.e. Cricket and Football. It also shows the students who do not participate in games and ratio of students who participate in Cricket and Football.

If students who participate in Cricket from class B increased by 50% and the students who do not participates in games remains same, then the number of students who participate in Football from class B will reduce to a) 15b) 90 c) 50 d) 45 e) 30

$B = \frac{C}{F} = \frac{90}{75}$ → 50% ↑ → 135

8

30

C+F = 165

Correct = 75-45

= 30

Class	Total students	Ratio of students Cricket :Football	Students who do not play
A	240	4:5	105
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The table shows the total number of students in 5 classes from which some participate in two games i.e. Cricket and Football. It also shows the students who do not participate in games and ratio of students who participate in Cricket and Football.

Ratio of boys to girls out of total number of students participated in Cricket from class C and class D is 2:1 and 6:5 respectively then find total number of boys who participated from both (C & D) classes together ?a) 66b) 180 c) 130d) 196 e) None

$C = \text{Cricket} = \frac{B}{G} = \frac{2}{1} = \frac{52}{26}$

$D = \text{Cricket} = \frac{B}{G} = \frac{6}{5} = \frac{24}{20}$

$52 + 24 = 76$

Class	Total students	Ratio of students Cricket :Football	Students who do not play
A	240	4:5	105
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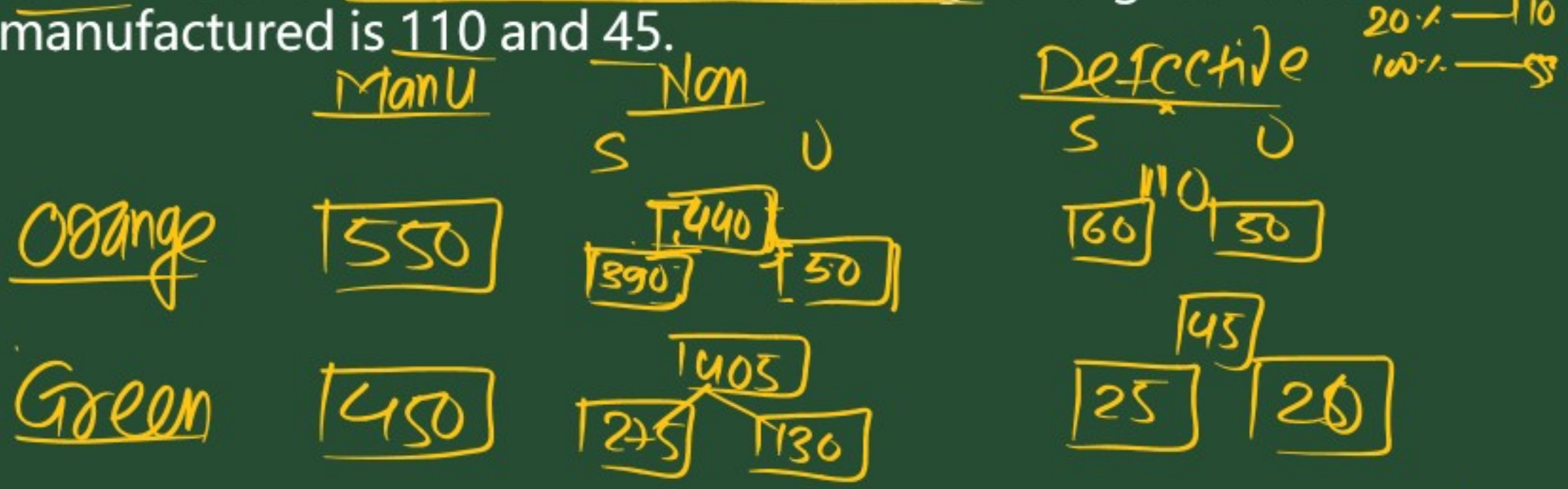
The table shows the total number of students in 5 classes from which some participate in two games i.e. Cricket and Football. It also shows the students who do not participate in games and ratio of students who participate in Cricket and Football.

- In a company, there are certain orange and green tissue papers manufactured on Monday and the ratio of the number of orange and green tissue papers manufactured is 11:9. 2/3 and 9/11 of the green and orange tissue papers are sold and 20% and 10% of the orange and green tissue papers manufactured are defective. The ratio of the number of defective orange tissue papers sold and unsold is 6:5 and the ratio of the number of defective green tissue papers sold and unsold is 5:4 and the number of defective orange and green tissue papers manufactured is 110 and 45.



1) Find the ratio of the number of orange tissue papers sold to the number of green tissue papers sold?

A. 4:5 B. 3:2 C. 6:7 D. 2:1 E. None of these

2) The number of green tissue papers manufactured that are non-defective is how
much percentage more than the number of green tissue papers sold?

A. 45% B. 25% C. 15% D. 35% E. None of these

3) Find the difference between the number of orange tissue papers manufactured that are non-defective and the number of green tissue papers manufactured that are non-defective?

A. 35 B. 25 C. 45 D. 15 E. None of these

1) I. $3x^2 - 10x + 8 = 0$ II. $2y^2 - 19y + 35 = 0$

$x = 12/8$ < $y = 42/15$ $x < y$

2) . I. $x^2 - 3 = 2x$ II. $y^2 + 5y + 6 = 0$

$x = 3/-1$ $y = -3/-2$ $x > y$

3) . I. $x^2 - 25x + 114 = 0$ II. $y^2 - 10y + 24 = 0$

$x = 19/6$ = $y = 6/4$ $x \geq y$

4) I. $25x^2 - 90x + 72 = 0$ II. $y^2 + 26y + 168 = 0$

$5 \times 5 \times 13 \times 6$

$x = 60/30$ > $x = 350/300$ $+10 \times 25$ $+12 \times 25$ $x > y$

25 men can complete a piece of work in 16 days. After 4 days from the start of the work, some men left. If the remaining work was completed by the remaining men in 15 days, then find the men left after 4 days from the start of the work?

a) 3 men
b) 4 men
c) 6 men
d) 5 men
e) None of these

$\longrightarrow 25 \times 16 = [25 \times 4] + [(25-x) \times 15]$

$25 \times 16 \longrightarrow$ T. W
$25 \times 4 \longrightarrow$ Work done
$25 \times 12 \longrightarrow$ Remaining

$5 \quad \frac{25 \times 12}{15_3} \quad 4$ = 20 men

Akshay, Siddhu and Dnyan enter into a Partnership with investment in the ratio of (3/2): (8/5): (5/3). After six months, Akshay increases his share by 40%. If the total profit at the end of the year be Rs. 136800, then what will be the share of Siddhu in the profit?

a) Rs. 41500
b) Rs. 42800
c) Rs. 43200
d) Rs. 38900
e) None of these

$A : S : D = \frac{3}{2} \times 30 : \frac{8}{5} \times 30 : \frac{5}{3} \times 30 = 45 : 48 : 50$

$A = [45 \times 6] + [63 \times 6] = 108 = 54$

$S = \frac{48 \times 12}{2} = 96 = 48$

$D = \frac{50 \times 12}{2} = 100 = 50$

$\text{Siddhu} = \frac{48}{152} \times 136800 = 48 \times 900 = 43200$

Monika, Neha and Bharti are three sister. Monika and Neha are twins. The ratio of sum of the ages of Monika and Neha is same as that of Bharti alone. Three years earlier the ratio of age of Monika and Bharti was 5 : 11. What will be the age of Bharti 7 years hence?

(a) 48 years
(b) 40 years
(c) 43 years
(d) 51 years
(e) none of these

Monika = $x \longrightarrow 18$
Neha = $x \longrightarrow 18$
Bharti = $2x - 36 + 7 = 43$

$$\frac{x-3}{2x-3} = \frac{5}{11}$$

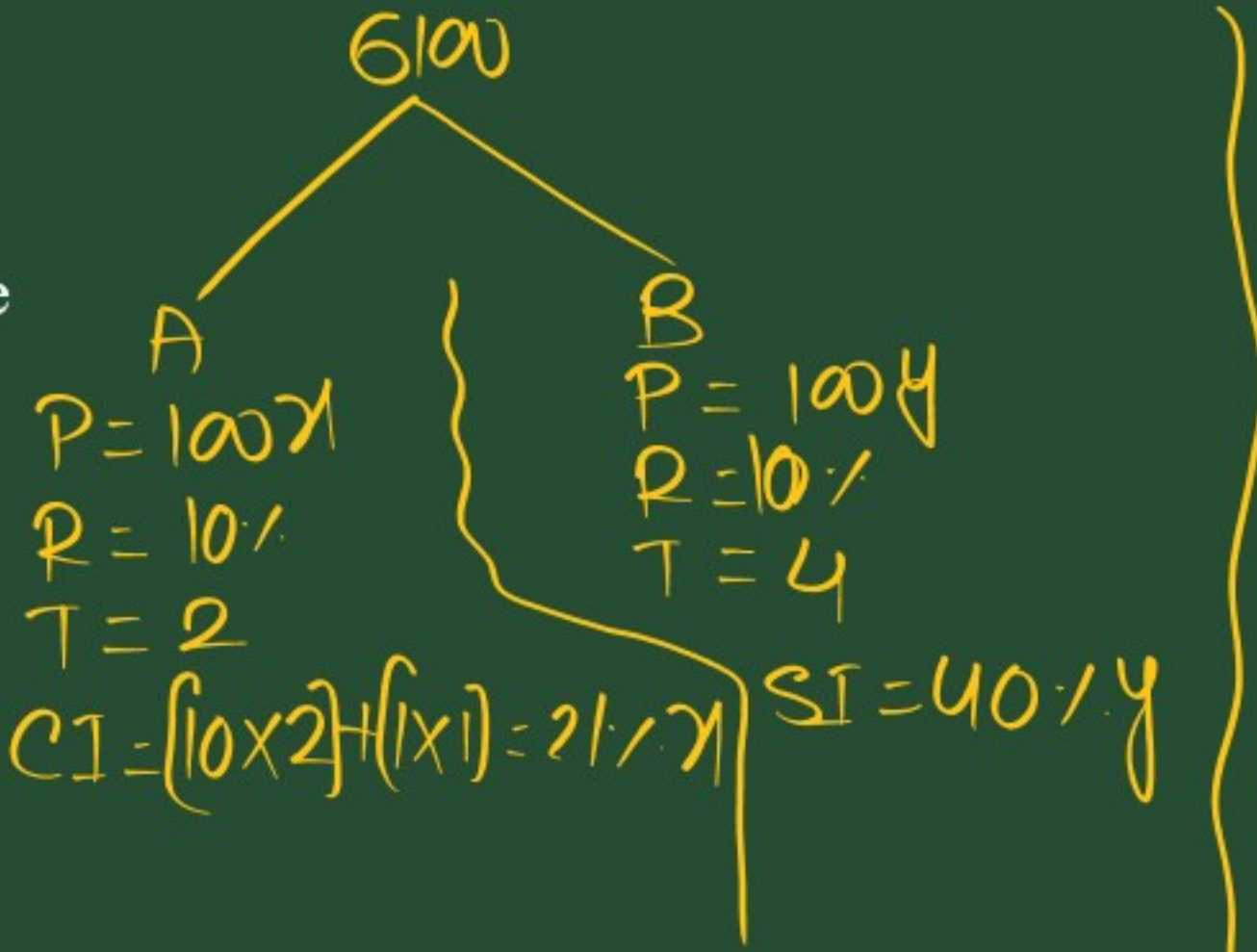
$11x - 33 = 10x - 15$

$x = 18$

AUS

Rs.6100 was partly invested in scheme at 10% pa Compound interest (Compounded Annually) for 2 years and partly in scheme B at 10%p.a. simple interest for 4 years . Both the schemes earn equal interests. How much was invested in Scheme A?

(a)3750
(b)4500
(c)5000
(d)4000
(e).None of these



$21x = 40y$

$\frac{x}{y} = \frac{40}{21}$

$x + y = 6100$

$x = 4000$

$y = 2100$

1) 20 % of 645 + 37.5 % of 840 – 2/5 of ? = 10% of (– 1080)

A. 1380
B. 1320
C. 1360
D. 1400
E.None

$$\frac{129 + 315 + 108}{276} = \frac{2}{5} \times ?$$

$$552 = \frac{2}{5} \times ?$$

$$? = 1380$$

2) 1/3 of 4569 + 12% of ? + 21% of ? – 53^2 = 199

2808

1523 + 33 1/9 x – 2809 = 199

A. 4400
B. 4500
C. 5500
D. 5400
E. None of these

33 1/9 x = 3008 – 1523

~~33~~ 1/9 x = ~~1485~~ 45

x = 450

3) $(49)^{16} \div (343)^{8} \times (2401)^{3} \times 49 = 7^{?}$

A. 20
B. 21
C. 22
D. 23
E. 24

$$\frac{(7^2)^{16}}{(7^3)^8} \times (7^4)^3 \times 7^2 = 7^{?}$$

$$7^{22} = 7^{22}$$

$$x = 22$$

$$\sqrt{\square\square^{\square} + \square\square \div \square - (\square)^{\square} + \square\square\square = (?)^{\square}}$$

(a) 2
(b) 16
(c) 256
(d) 4
(e) $(256)^2$

- **How much amount Rina will get at the end of two years if the rate of interest is compounded annually?**

Statement I : Rohan invests the same of amount of money under simple interest at the rate of 10% per annum and receives a total amount of Rs.1560 at the end of 3 years.

Statement II : The difference between the simple interest and compound interest on the same sum of money at the same rate of interest at the end of 2 years is Rs 12.

None

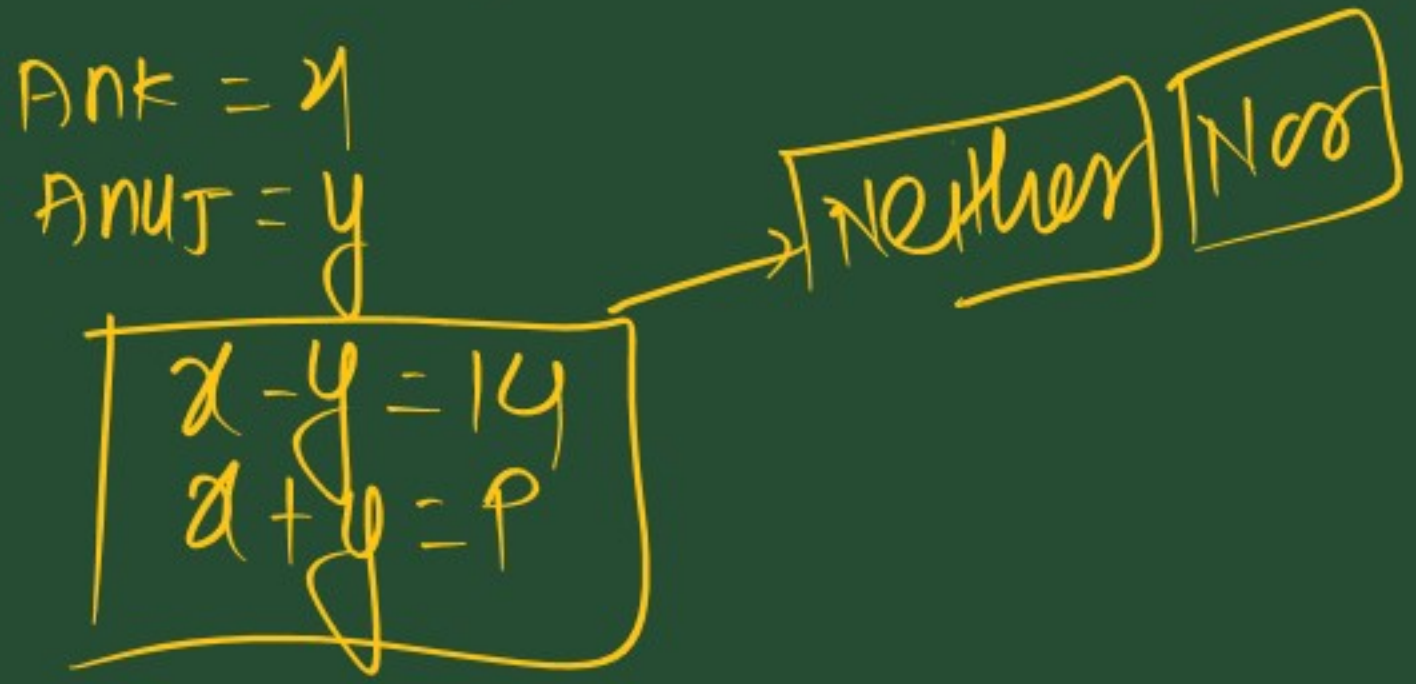
- **What should be the selling price of washing machine so as to make a profit of 25%?Statement I :** An electronic shop dealer marks washing machine 80% above the cost price and after allowing a discount of 25% he claims a profit of Rs. 3500.**Statement II :** A shopkeeper sold the same washing machine for Rs. 15000 on the condition that shopkeeper will pay the transportation cost of Rs 2000 and he gets a profit of 25%.

Either or

- **How many years old will Anuj be p years from now?**

Statement I : Ankur is 14 years older than Anuj.

Statement II : The sum of the ages of Ankur and Anuj is p years.



- The given table chart shows the ratio of the total production of two different eggs i.e. white and brown on five different days (Monday, Tuesday, Wednesday, Thursday and Friday) and the percentage of the total production of eggs and the total production of white and brown eggs on Thursday is 1000.

Days	Percentage of the total production of eggs	Ratio of the total production of white and brown eggs
Monday	15%	11:7
Tuesday	33.33%	5:3
Wednesday	25%	7:5
Thursday	16.66%	9:11
Friday	10%	5:7

If the ratio of the total production of eggs on Saturday and Friday is 8:5 and 25% of the eggs on Saturday are unsold and then find the number of eggs sold on Saturday?

A. 640
B. 720
C. 550
D. 810
E. None of these

Days	Percentage of the total production of eggs	Ratio of the total production of white and brown eggs
Monday	15%	11:7
Tuesday	33.33%	5:3
Wednesday	25%	7:5
Thursday	16.66%	9:11
Friday	10%	5:7

The total production of brown eggs on Thursday is what percentage of the total production of white eggs on Monday and Thursday together?

A. 55%
B. 25%
C. 45%
D. 35%
E. None of these

Days	Percentage of the total production of eggs	Ratio of the total production of white and brown eggs
Monday	15%	11:7
Tuesday	33.33%	5:3
Wednesday	25%	7:5
Thursday	16.66%	9:11
Friday	10%	5:7

On Friday, 20% and 28.56% of the white and brown eggs is defective. If the total revenue generated by defective white and brown eggs is Rs.450 and the ratio of the selling price of each defective to non-defective white and brown eggs is 1:2. Then find the selling price of each nondefective eggs (All eggs are sold)?

A. Rs.5
B. Rs.7
C. Rs.6
D. Rs.4
E. None of these

Days	Percentage of the total production of eggs	Ratio of the total production of white and brown eggs
Monday	15%	11:7
Tuesday	33.33%	5:3
Wednesday	25%	7:5
Thursday	16.66%	9:11
Friday	10%	5:7

A train can travel 50% faster than a car. Both start from point A at the same time and reach point B. 75 kms away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is:

a) 100 km / h
b) 180 km / h
c) 120 km / h
d) 130 km / h
e) None of these

A boat can travel 3.5km upstream in 14min. If the ratio of the speed of the boat in still water to the speed of the stream is 7:2. How much time will the boat take to cover 36km downstream?

A) 65minB) 80minC) 75minD) 70minE) None of these

Manohar and Ragu can separately do a piece of work in 15 and 18 days respectively. They worked together for 6 days, after which Ragu was replaced by Ranjith. If the work was finished in next 1 1/3 days, then find the number of days in which Ranjith alone could do the work?

a) 8 ¾ days
b) 9 5/6 days
c) 10 2/5 days
d) 7 ½ days
e) None of these

A bag contains balls numbered 1 to 30. One ball is taken out randomly. What is the probability of that ball number is a multiple of 4 or 7?

(a) 11/30

(b) 1/3

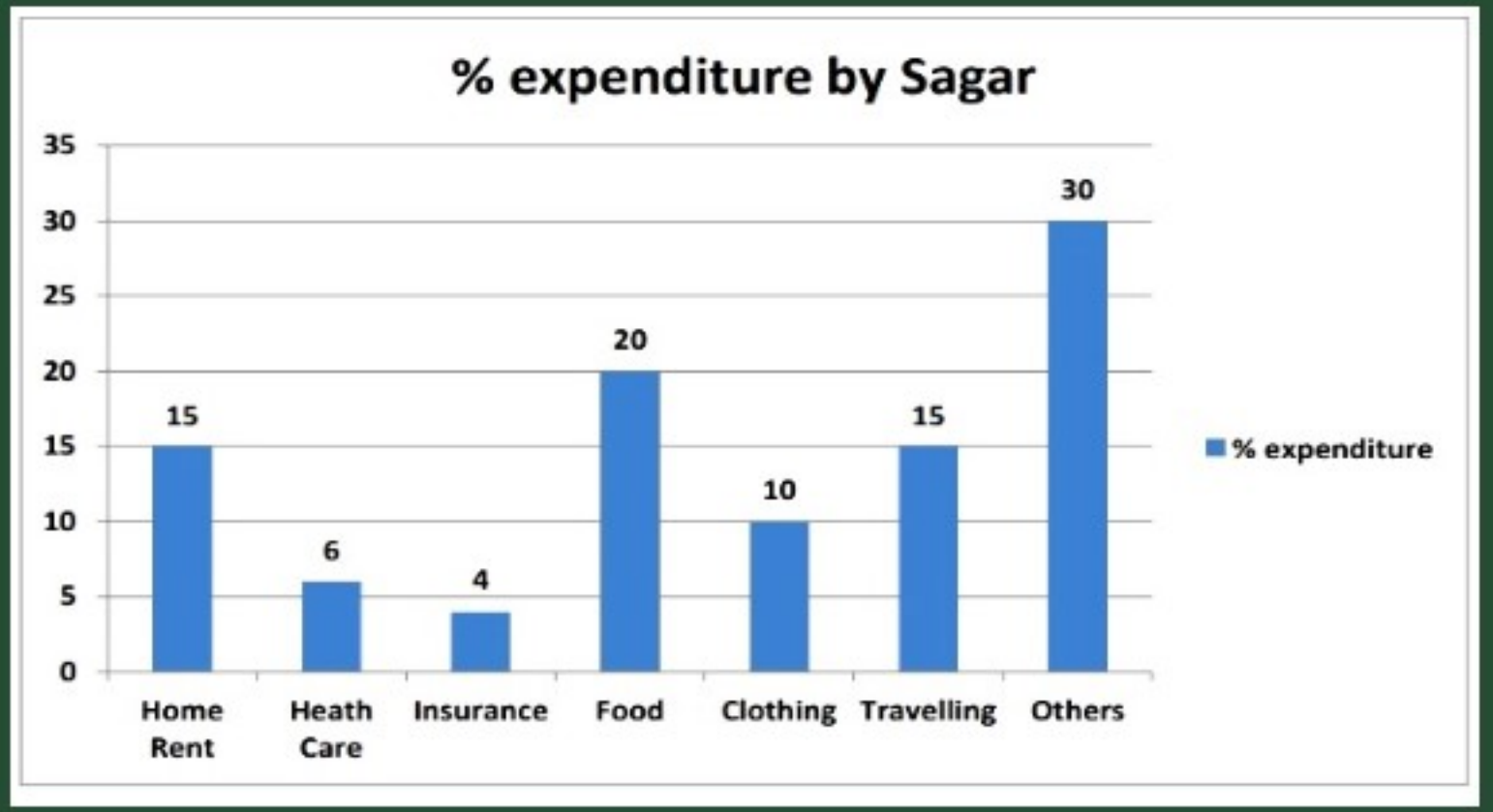
(c) 7/30

(d) 1/30

(e).None of these

If the Home Rent is increased by 20% then expenditure on others should be reduced by what percent so that overall expenditure remains constant.

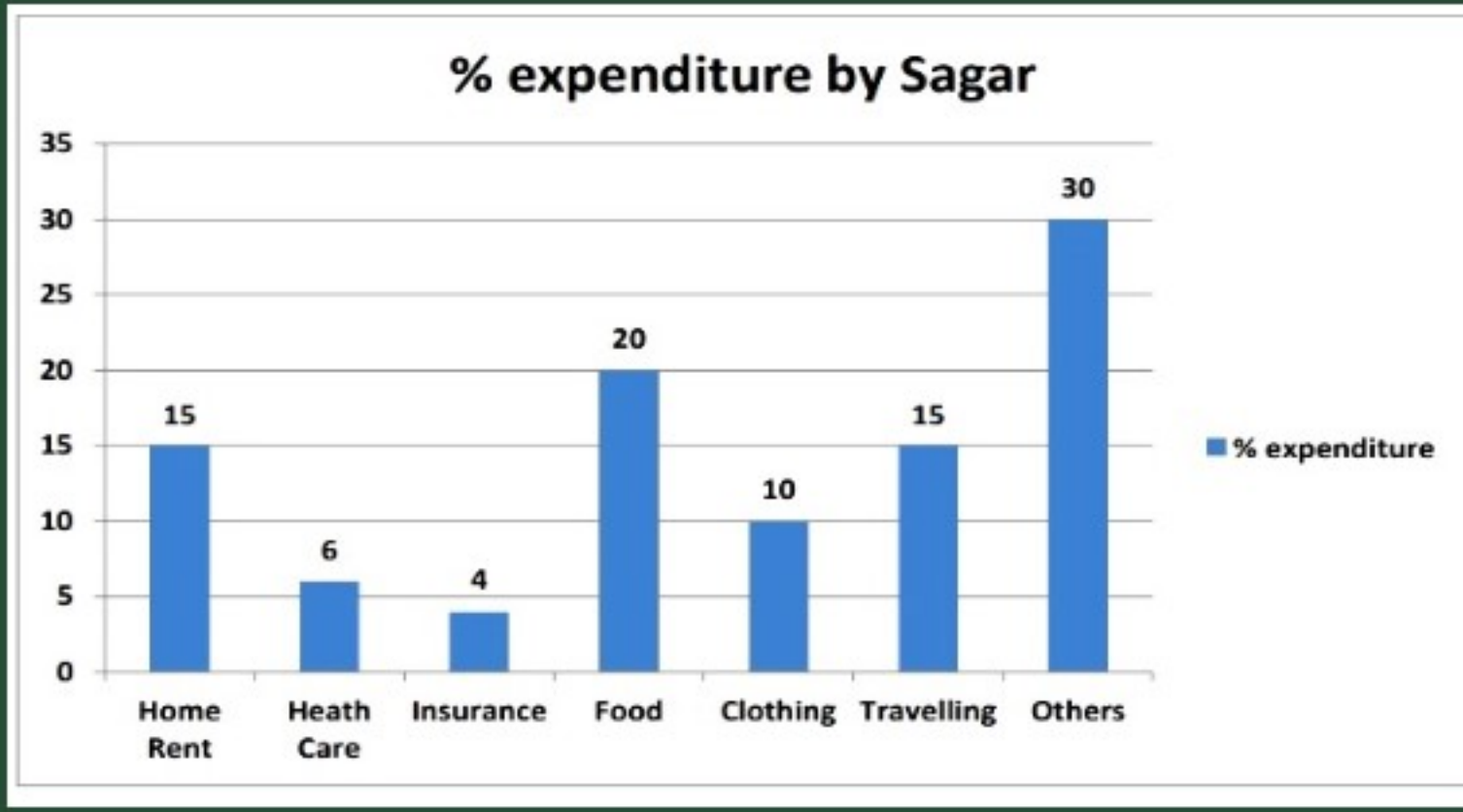
a) 20%
b) 25%
c) 10%
d) 15%
e) 12.5%



The bar graph given below shows the percentage expenditure by Sagar in year 2018 on various things. Total expenditure in 2018 is 20 Lakh.

Total expenditure of Sagar increased to 25 lakh in 2019 while the Food expenditure remains same that is 20% of expenditure. Then what is the difference between total expenditure on Food by Sagar in year 2018 and 2019?

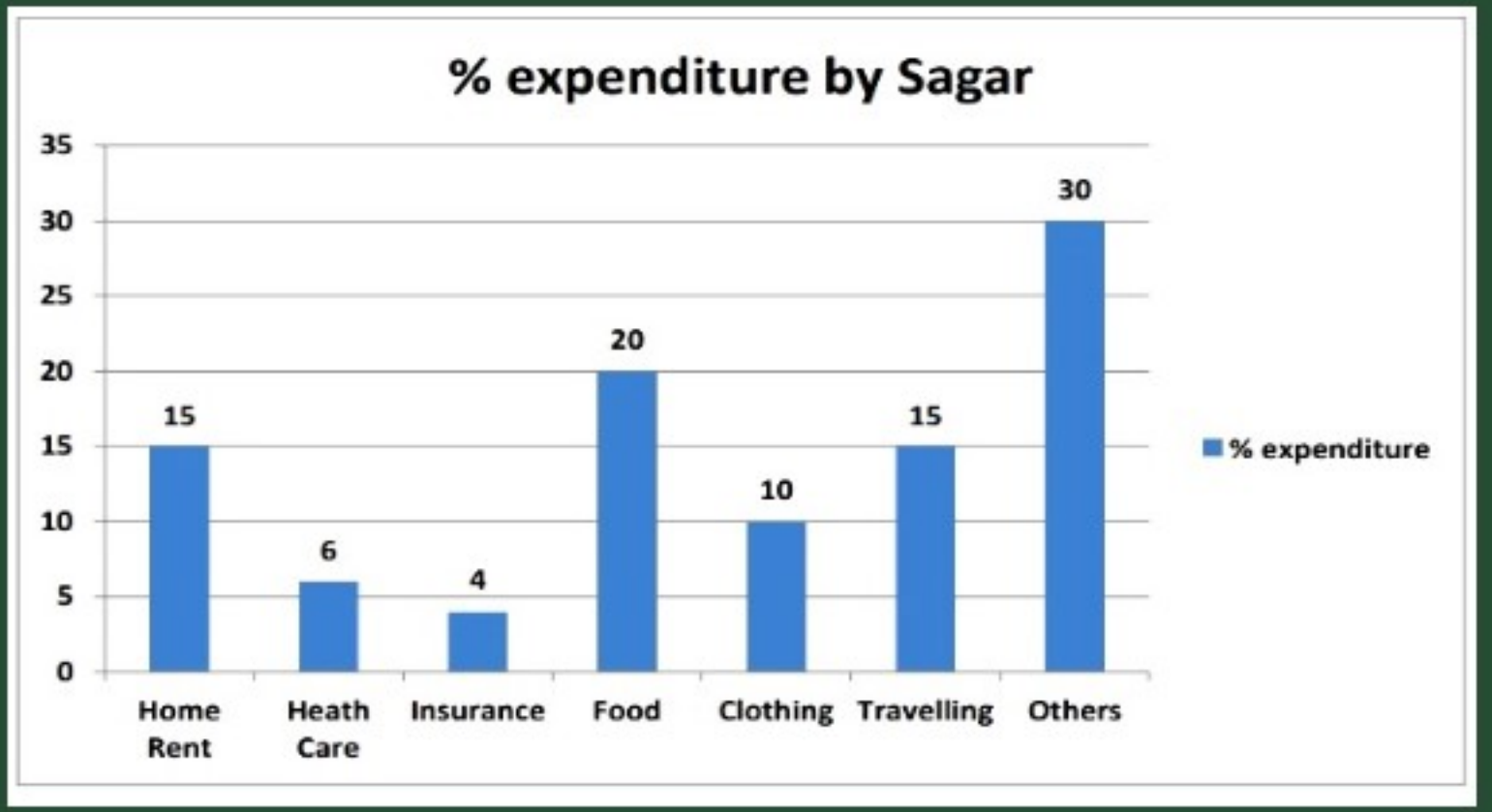
a) 5 Lakh
b) 3 Lakh c) 2.5 Lakh
d) 1 Lakh
e) 1.5 Lakh



The bar graph given below shows the percentage expenditure by Sagar in year 2018 on various things. Total expenditure in 2018 is 20 Lakh.

If the total expenditure by Sagar in 2018 is 80% of his earnings then expenditure on clothing is what percentage of his total earnings?

a) 12.5%
b) 7.5%
c) 8.5 %
d) 9.5 %
e) 15.5%



The bar graph given below shows the percentage expenditure by Sagar in year 2018 on various things. Total expenditure in 2018 is 20 Lakh.


THANK YOU!