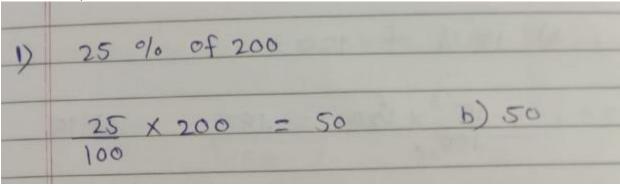
Topic: Percentage & Profit & Loss question Bank Deadline: Monday 10th March

Name: Mansi Patil_KH PRN No. 250240320059

- 1. What is 25% of 200?
 - a) 25
 - b) 50
 - c) 75
 - d) 100

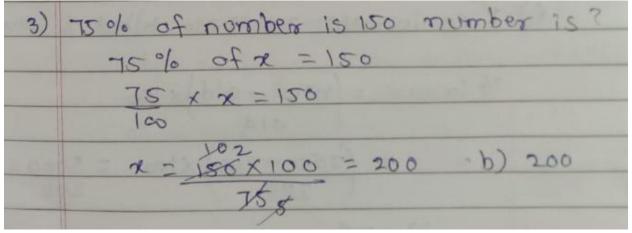


- 2. If 40% of a number is 80, what is the number?
 - a) 100\
 - b) 150\
 - c) 200
 - d) 250

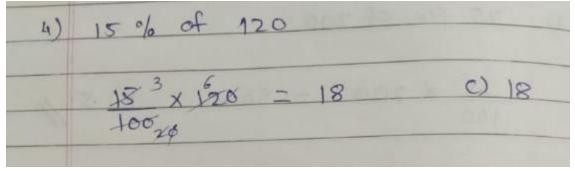
2)	40 % of number is 80 number is?
	40 % of x = 80
	40 ×2 = 80
	100
	$x = 80 \times 100 = 200$ c) 200
	40
	70

3	75%	of a	number	is	150	What is	the	number?
J.	15/0	or a	Hullioci	10	150.	vv mat 18	uic	mumber:

- a) 175
- b) 200
- c) 225\
- d) 250



- 4. What is 15% of 120?
 - a) 12\
 - b) 15\
 - c) 18
 - d) 20



5. If 30% of a number is 90, then the number is:\

- a) 200\
- b) 250\
- c) 300
- d) 350

5)
$$30 \% \text{ of number is } 90 \text{ number is } 30 \% \text{ of } x = 90$$

$$30 \times x = 90$$

$$100$$

$$x = 90 \times 100 = 300 \text{ c) } 300$$

6. The price of a product increases from ₹200 to ₹250. What is the percentage increase?\

- a) 20%\
- b) 25%
- c) 30%\
- d) 35%

6) Price increase 200 to 250. Albat % increase?

% increase =
$$\frac{\text{new} - \text{old}}{\text{old}} \times 100$$

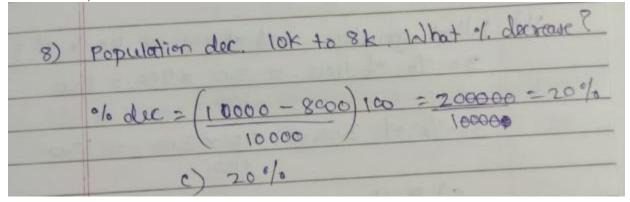
= $\frac{250 - 200}{200} \times 100 = \frac{5000 - 25\%}{200}$

b) $\frac{25\%}{6}$

_	A 1 .	C 340 000 4	T	3371	
/.	A salary increases	irom ₹40,000 to	₹30,000.	what is the	percentage increase?\

- a) 20%\
- b) 25%\
- c) 30%\
- d) 35%

- 8. The population of a town decreased from 10,000 to 8,000. What is the percentage decrease?\
 - a) 10%\
 - b) 15%\
 - c) 20%\
 - d) 25%



	a) 10%\
	b) 15%\
	c) 20%\
	d) 25%
9)	book price dec 500 to 400. h/hat 10 alec? o/o alec = (500-400)100 = 10000 = 20% 500
***	of old - (500) 500
- 1-	c) 20 %
10. If the	ne cost price of an item is ₹600 and the selling price is ₹450, what is the percentage loss?\ a) 20%\ b) 22.5%\
	c) 25%\
	d) 30%
10)	C.P = 600 825.P= 450, What 16 1055?
	$\frac{c.P = 600}{1000} = \frac{(600 - 450)100}{(600)} $
	= 75/5000 = 25%

3 600

c) 25 %

9. A book's price drops from ₹500 to ₹400. What is the percentage decrease?\

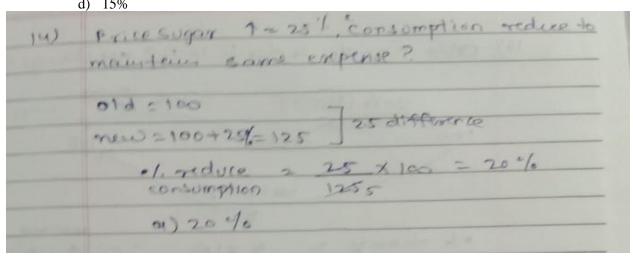
- 1. ### **Section 3: Percentage Comparison**
- 11. Which is greater: 30% of 400 or 40% of 300?\
 - a) 30% of 400\
 - b) 40% of 300\
 - c) Both are equal\
 - d) Cannot be determined

- 12. A person spends 60% of his income and saves ₹8,000. What is his total income?\
 - a) ₹15,000\
 - b) ₹18,000\
 - c) ₹20,000\
 - d) ₹25,000

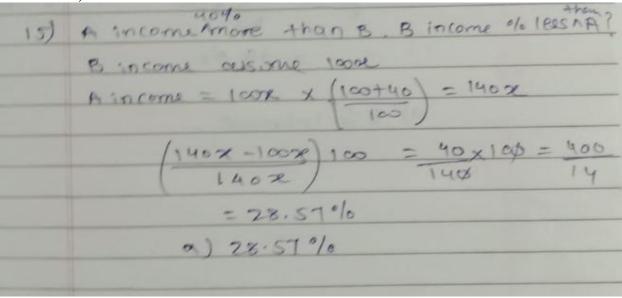
- 13. If A is 20% more than B, then B is how much less than A?\
 - a) 20%\
 - b) 16.67%\
 - c) 25%\
 - d) 10%

13)	A is 20%. more than B, B is how much less A?
	A = 20% of B => B + 20 B = B+ 0.2B
	A = 1.2B
	B is smaller than A by 1.2B-B=0.2B
	9. 1095 = 0.2B ×100 = 1 ×100 = 16.67%
	b) 16.67°/°

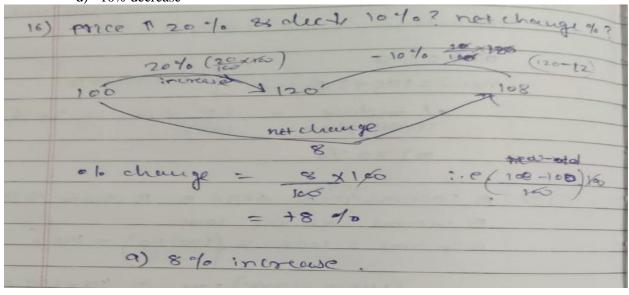
- 14. If the price of sugar is increased by 25%, by how much should the consumption be reduced to maintain the same expense?\
 - a) 20%\
 - b) 25%\
 - c) 30%\
 - d) 15%



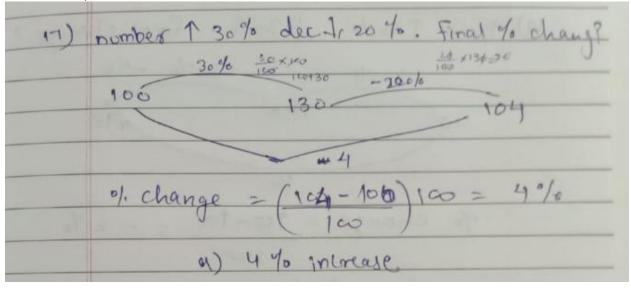
- 15. If A's income is 40% more than B's income, then B's income is what percentage less than A's?\
 - a) 28.57%\
 - b) 30%\
 - c) 33.33%\
 - d) 40%



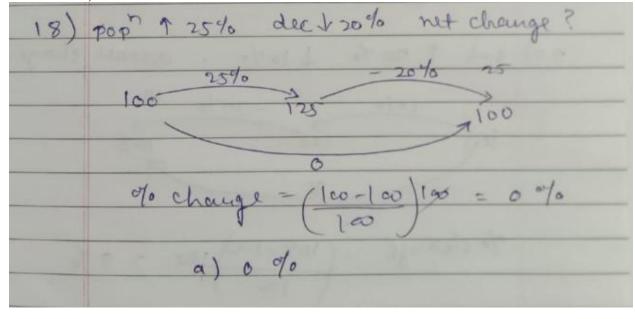
- 16. The price of an item is increased by 20% and then decreased by 10%. What is the net percentage change? $\$
 - a) 8% increase\
 - b) 8% decrease\
 - c) 10% increase\
 - d) 10% decrease



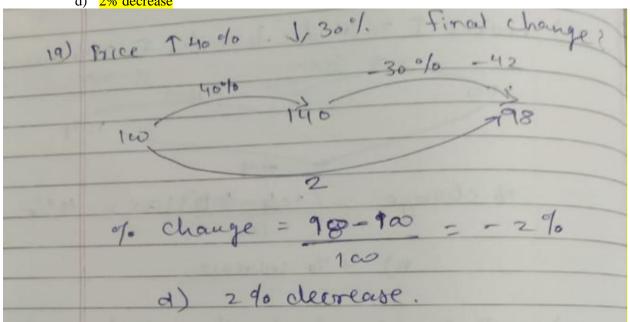
- 17. A number is increased by 30% and then decreased by 20%. What is the final percentage change?\
 - a) 4% increase\
 - b) 8% increase\
 - c) 10% increase\
 - d) 12% increase



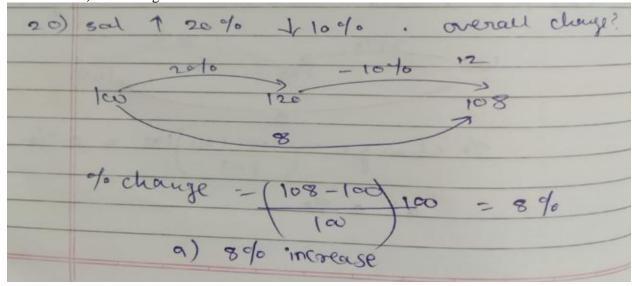
- 18. If the population of a city increases by 25% and then decreases by 20%, what is the net percentage change?\
 - a) 0%\
 - b) 5% increase\
 - c) 10% decrease\
 - d) 5% decrease



- 19. If a price increases by 40% and then decreases by 30%, the final change is:\
 - a) 2% increase\
 - b) 10% increase\
 - c) 10% decrease\
 - d) 2% decrease



- 20. The salary of a person is first increased by 20% and then decreased by 10%. What is the overall percentage change? $\$
 - a) 8% increase\
 - b) 10% increase\
 - c) 10% decrease\
 - d) No change



- 21. If an article is sold at a profit of 25%, then the selling price is what percentage of the cost price?\
 - a) 100%\
 - b) 125%\
 - c) 150%\
 - d) 175%

- 22. A shopkeeper allows a discount of 10% on the marked price and still makes a profit of 8%. If the marked price is ₹500, what is the cost price?\
 - a) ₹400\
 - b) ₹420\
 - c) ₹450\
 - d) ₹460

22)	discourt 10% on m. P & make profit 8%. m. P is 500
	C.P=? S.P=450
	mp= 800
	d=10%
	S.P = 500 - 10% of 500 = 500 - 10x500 = 500-50
Date:	The state of the s
1 1 7	Profit = 8 %
	C.P= S.P = 450 = 450 x 100 = 416.666
	1+ Profit 90 1+8 +08
	100 100 27 = 420
	b) 420 Rs

23. If the profit is 20% of the cost price, then what is the profit percentage on the selling price?

- a) 16.67%\
- b) 18%\
- c) 20%\
- d) 22%

23)
$$P = 20\% \text{ of } C.P. \text{ Profit } \% \text{ on } S.P.?$$

Profit = $20\% \text{ flw} = 20$
 $S.P = C.P + \text{Profit} = 100+20 = 120$

Profit $\% \text{ on } S.P = \frac{100}{S.P} \times 100 = \frac{100}{200} \times 10$

24. A product is marked at ₹1,200 and sold for ₹960. What is the percentage discount given?

- a) 15%\
- b) 20%\
- c) 25%\
- d) 30%

25. If an article is bought for ₹500 and sold for ₹650, what is the percentage profit?

- a) 20%\
- b) 25%\
- c) 30%\
- d) 35%

25)
$$e \cdot P = 5 co$$
 $s \cdot P = 650$ o/o $Profit = 0.0$

Profit = $650 - 5 co = 150$
 e/o $Profit = \frac{150}{500} \times 100 = 30\%$
 e/o e/o

26. If A's income is 20% more than B's, then B's income is what percentage less than A's?

- a) 16.67%
- b) 18%
- c) 20%
- d) 25%

27.If the ratio of boy	ys to girls in a school is 3:2, what percentage of the total students are boys?
e) 30%	6
f) 40%	6

g) 50%h) 60%

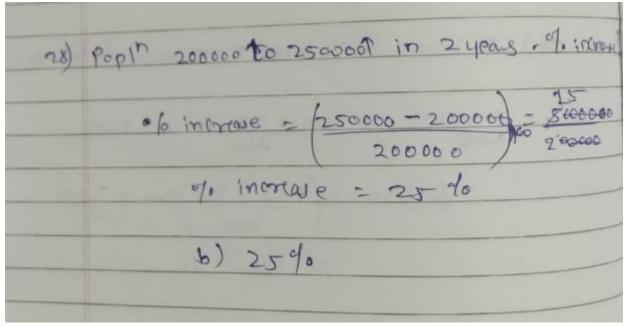
1) boys to girls radio = 3:2 % total boys?

Total part = 3t? = 5

olo at boys =
$$(3)^{120}$$
 = 60%

h) 60%

- 28 A city's population increased from 2,00,000 to 2,50,000 in 2 years. What is the percentage increase?
 - a. 20%
 - b. 25%
 - c. 30%
 - d. 35%



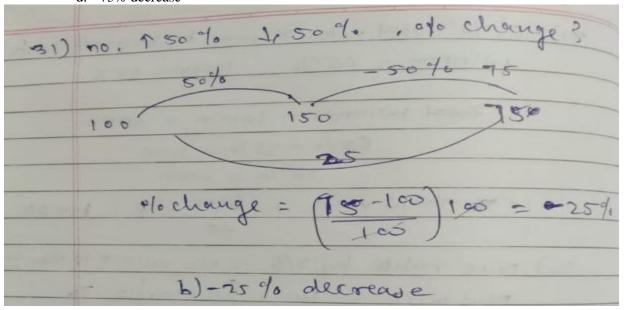
- 29 In an election, a candidate gets 65% of the total votes and wins by 3000 votes. How many total votes were cast?
 - a. 5000
 - b. 6000
 - c. 8000
 - d. 9000

65 % total votes & wind by 3000 votes. total ?
Winner = 65% loser = 35%
Fotal Winner - loser = 3000
65% - 35% = 3000
30% = 3000
\$ Total votes = 3000 x 100 = \$0000

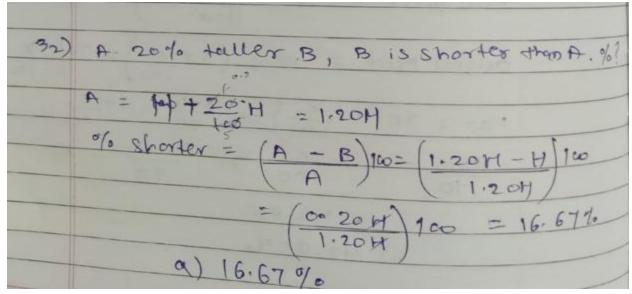
- 30 The price of an article is reduced by 30%. By what percentage must the new price be increased to restore the original price?
 - a. 30%
 - b. 42.85%
 - c. 50%
 - d. 60%

30)	Price redute by 3%. No new price 1 to restor Orig
	new price = 100 - (BO x 100) = 70
1900	orignal price = new (1 + x) = 70(1+x)
	$100 = 70\left(1 + \frac{x}{100}\right) \Rightarrow \frac{100}{70} = 1 + \frac{x}{100}$
687, 14	$\frac{100 - 1 = 90}{70} = 3000 = 2$
A FR A	42.85
	b) 42.85°(0

- 31 If a number is increased by 50% and then decreased by 50%, what is the net percentage change?
 - a. 0%
 - b. 25% decrease
 - c. 50% decrease
 - d. 75% decrease



- 32 If A is 20% taller than B, then B is shorter than A by:
 - a. 16.67%
 - b. 18%
 - c. 20%
 - d. 25%



33 If 30% of a number is 90, what is 60% of the same number?

- a. 120
- b. 150
- c. 180
- d. 200

33) 30% of no. is 90, 60% of same no.?

number = 8

$$30 \times 9 = 90 \Rightarrow x = 90 \times 100 = 300$$

100

 $50 = 60 \times 300 = 180$

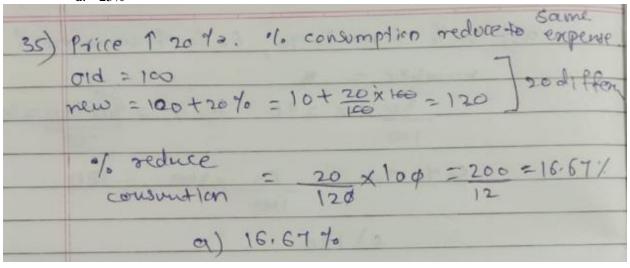
100

100

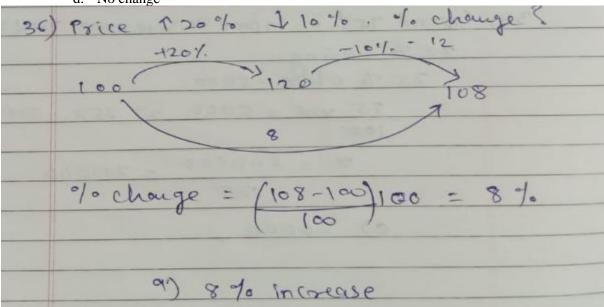
100

- 34 A person spends 75% of his income and saves ₹5000. What is his total income?
 - a. ₹15,000
 - b. ₹18,000
 - c. ₹20,000
 - d. ₹25,000

- 35 The price of petrol increases by 20%. By what percentage should consumption be reduced to maintain the same expense?
 - a. 16.67%
 - b. 18%
 - c. 20%
 - d. 25%



- 36 The price of a TV was first increased by 20% and then decreased by 10%. What is the overall percentage change?
 - a. 8% increase
 - b. 10% increase
 - c. 10% decrease
 - d. No change

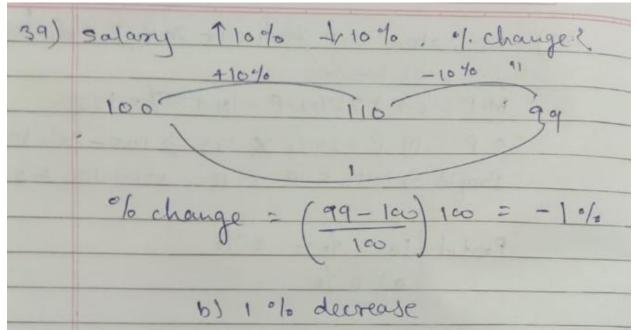


- 37 A shopkeeper marks an item 25% above the cost price and gives a 20% discount. What is his profit/loss percentage?
 - a. 0%
 - b. 2% profit
 - c. 5% profit
 - d. 10% loss

37)	25 / above C. P & discret 20 % % Profit 1035?
-	C. P = 100 assume.
100	M.P = C.P + 25% C-P = 100 + 25% = 125
	S.P = M.P-20% × 125=) 125-85=100
	Profit or 1011 = S.P-C.P = 100-100 = 0
	Profit 1 1055 do = 0 %.
	a) o %

- 38 If the cost price of an article is ₹500 and it is sold at a loss of 20%, what is the selling price?
 - a. ₹350
 - b. ₹375
 - c. ₹400
 - d. ₹450

- 39 If a salary is increased by 10% and then decreased by 10%, what is the final percentage change?
 - a. 0%
 - b. 1% decrease
 - c. 1% increase
 - d. 2% decrease



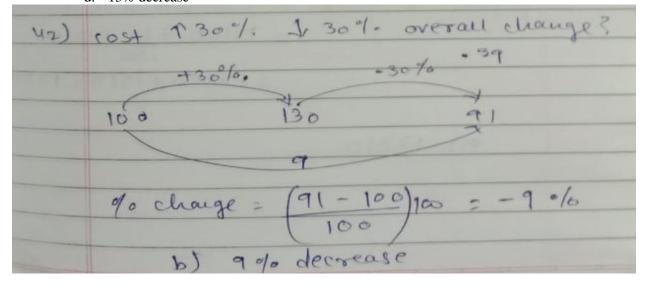
- 40 A student needs 40% marks to pass. He gets 200 marks and fails by 20 marks. What are the total marks?
 - a. 500
 - b. 550
 - c. 600
 - d. 650

40% marks to passigit 200 mark & fail by 20 mark
Total marks?
Passing mark = 40 do total marks
Passing mark = 40 do total marks 220 = 40 xtotal marks
100
Total marks = 22,000 = 550
up
b) 550

- 41 A man spends 20% of his salary on rent, 30% on food, and 10% on transport. If he saves ₹18,000, what is his salary?
 - a. ₹40,000
 - b. <mark>₹45,000</mark>
 - c. ₹50,000
 - d. ₹55,000

41)	spends 20%, 30%, 10% salary, and
-	saves 18000. Salary?
	Total Salony spend = 20%+30%+10%
	= 60 %
	40 % is saved.
	40% of salary saved.
11 4	40 % x salary = 18000
	salary = 1800009 = 45000
	up
*	b) 45000

- 42 The cost of an item is first increased by 30% and then decreased by 30%. What is the overall percentage change?
 - a. 0%
 - b. 9% decrease
 - c. 9% increase
 - d. 15% decrease



43) The population of a town increases by 10% every year. If the current population is 10,000, what will it be after 3 years?

- a) 13,310
- b) 13,500
- c) 14,000
- d) 14,200

3/12		[100 / / /
43)	POPI 110%.	current popl = 10,000. 3 years
		- 10t1 = 10000 " a years
37.01	Poput 1st year	= 10000 + 10.% of 10000
		= 10000 + 10 × 10000
		= 10000 + 1000 = 11000
	Popuel 2 year	= 11000 + 10% + 11000
		= 11600 + 10×11000
		= 11000 + 1100 = 1210
	poput " 3" year	2 12/00 + 10 /0 34 12/00
	de lares de se	= 12/00 + 10 × 12/00
	70.	160
		= 12100+1210=13310
	15	71
	9) 13310	

44) If 15% of A is equal to 20% of B, then A:B is:

a) 3:4

b) 4:3

c) 3:5

d) 5:3

45) If the cost price of an item is ₹800 and the profit made is 25%, what is the selling price?

a) ₹900

b) ₹1000

c) ₹1050

d) ₹1100

46) If the cost price (CP) of an item is ₹200 and the selling price (SP) is ₹250, what is the profit percentage?

a) 20%

b) 25%

c) 30%

d) 40%

46)	C.P = 200 S.P = 250 Profit % = ?
	Profit = 5.p-C.P => 250-200=50
	P20[:1 2/
	Profit do = 50 x100 = 25%
lon.	b) 25 %

47) A man sells an article for ₹720 at a profit of 20%. Find the cost price.

a) ₹600

b) ₹620

c) ₹650

d) ₹700

9)
$$600 Rs$$
 $C.P = 720$
 $C.P = 600$

48) A shopkeeper sells an item at a loss of 15%. If the cost price is ₹500, find the selling price.

- a) ₹400
- b) ₹425
- c) ₹450
- d) ₹475

49) A man purchased a cycle for ₹1500 and sold it at a loss of 10%. What was the selling price?

- a) ₹1200
- b) ₹1300
- c) ₹1350
- d) ₹1400

50) A trader marks his goods at 30% above the cost price and allows a discount of 10%. What is his gain percent?

- a) 17%
- b) 18%
- c) 19%
- d) 20%

50)	marks 1 goods = 30% above C.P. discount 10%
	gan do?
	mark price = C.P + Mark 1/2 100+30% = 130
	discount = 10% of 130 = 130 × 10/100 = 13
	S: P = 130 - 13 = 117 B
- 3	Gain = S.P-C.P = 117-100 = 17
	Gain % = (Gain) 100
	$=$ $\left(\frac{17}{100}\right)\frac{100}{100} = \frac{17}{70}$
	9) 1-1 /6