Assignnment-Day2

Percentage & Profit & Loss

1. Riya scored 18 out of 20 in a quiz. What percentage did she get?

Answer: (18/20)\*100

**90%**

2. Amit had 100 and spent 25% on snacks. How much money is left?

Answer:100\*25/100=25

100-25= **75 rupees**

3. Maya got 75% in her exam. What marks did she get if the total was 200?

Answer: 200\*75/100=150

**150**

4. A bottle has 500 ml water. If 20% evaporates, how much is left?

Answer: 500\*20/100=100

500-100=**400 ml**

5. Tina's salary is 10,000. If she gets a 10% hike, what is her new salary?

Answer: 10000+10/100=1000

10000+1000**=11000**

6. A shopkeeper earns 15% profit on a toy bought for 200. What's the

selling price?

Answer: 15/100\*200=30

200+30=**230 rupees**

7. An item costs ₹400. It is sold at a loss of 10%. What is the selling price?

Answer: 400\*10/100=40

400-40=**360 rupees**

8. Meena bought a pen for 60 and sold it at 75. What is her profit %?

Answer: 75-60=15

(15/60)\*100=**25%**

9. If 100 apples cost 600, what is the price per apple in percentage terms

of 1?

Answer: 600/100=6 rupees

(6/1)\*100=**600%**

10. A discount of 20% is given on a 500 shirt. What is the final price?

Answer: 500\*20/100=100

500-100=**400 rupees**

11. Arjun scored 20% more than Nisha. If Nisha scored 50 marks, how much

did Arjun score?

Answer: (20/100)\*50=10

50+10=**60**

12. A trader buys a fan for ₹1500 and sells it at 10% profit. Later, he offers a 5%

discount. What is the final selling price?

Answer:1500\*10/100=150

1500+150=1650

1650\*5/100=82.5

1650-82.5= **1567.50 rupees**

13. Swati spent 40% of her salary and saved 9000. What was her salary?

Answer: (60/100)\*x=9000

(3/5)x=9000

3x=45000

x=**15000 rupees**

14. A product is marked 1200 with 2 successive discounts of 10% and 5%.

What is the selling price?

Answer: 1200\*10/100=120

1200-120=1080

1080\*5/100=54

1080-54=**1026 rupees**

15. Sameer says selling at 25% loss is better than selling at 10% profit. Can

you prove him wrong?

Answer:x=100

100\*25/100=25

Loss=100-25=75

100\*10/100=10

Profit=100+10=110

**profit is better**

16. If A's salary is 25% more than B's, by what percentage is B's salary less

than A's?

Answer: B=100

A=100+25=125

Percentage=((125-100)/122)\*100

(25/125)100=**20%**

17. A trader marks a bag 40% above the cost and allows 20% discount.

What is his net profit %?

Answer: Mp=40% above cp

Mp=100+40=140

Discount=20% on mp

Discount=140\*20/100=28

Sp=140-28=112

Profit=112-100=12

100\*12/100=**12%**

18. Sneha bought a book for 240 and sold it at 288. What was her profit

%?

Answer: profit=-240=48

(48/240)\*100=**20%**

19. If a population grows by 10% per year, what will be the population after 2

years if it's currently 10,000?

Answer:P\*(1+r)^n

10000\*(1+0.10)^2= **12100 rupees**

20. A shopkeeper sells a watch for 1320 after giving 12% discount. What

was the marked price?

Answer: sp=mp\*(1-d%/100)

1320=mp\*(1-12/100)

1320=Mp\*0.88

1320/0.88=mp

Mp=**1500 rupees**

21. A dealer uses 950g instead of 1kg while selling sugar at the cost price.

What is his profit %?

Answer:100\* 950/1000=95

100-95=5

P=100\*5/95=**5.26%**

22. A man buys 2 items at 500 each. One is sold at 10% profit, the other at

10% loss. What is the overall gain or loss?

Answer: sp1=500+(10/100)\*500=550

Sp2=500-(10/100)\*500=450

500+500=1000

550+450=1000

**no profit , no loss**

23. A product marked 2000 is sold at 2 successive discounts of 20% and

10%, followed by 5% GST. What is the final bill amount?

Answer: 2000\*20/100=400

2000-400=1600

1600\*10/100=160

1600-160=1440

1440\*5/100=72

1440+72=**1512 rupees**

24. A man spends 80% of his income. If his income increases by 25% and

expenses by 20%, what is the % increase in savings?

Answer:100\*80/100=80

100-80=20

100+100\*25/200=125

Expen=80+80\*20/100=96

Savings=125-96=29

Income in savings=29-20=9

100\*9/20= **45%**

25. A trader marks an article 50% above cost price and gives 20% discount. If

his profit is 240, what is the cost price?

Answer: cp=x

Mp=x+x\*50/100=x+0.5x=1.5x

SP=1.5x-1.5x\*20/100

1.5x-0.3x=1.2x

Sp-cp=1.2x-x=0.2x

Profit=240

0.2x=240

X=**1200 rupees**