Percentages

Applications

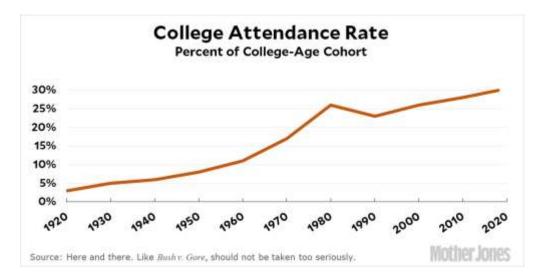
1. Used to calculate Marks percentage.

Percentage mark =
$$\frac{40}{60} \times 100\%$$

= $\frac{\frac{2}{40}}{\frac{60}{3}} \times \frac{100}{1}\%$
= $\frac{200}{3}\%$
= $\frac{66\frac{2}{3}\%}{3}$
= $\frac{67\%}{3}$

{Rounded to the nearest per cent}

2. Used to calculate Attendance percentage.



Applications

You must have seen advertisements in newspaper, television and hoardings etc of the following type.

3. "Sale up to 60% off".

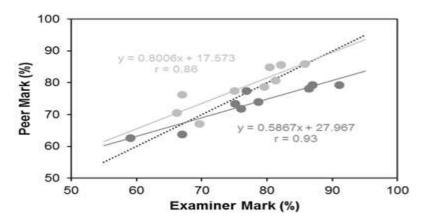


4. "Voters turnout in the poll was over 70%".



Applications

5. "Jampi got 93% aggregate in class XII Examination".



6. "Banks have lowered the rate of interest on fixed deposits from 8.5% to 7%".



In all the above statements the important word is "percentage"..so in all the above we use percentages.

*Model-1

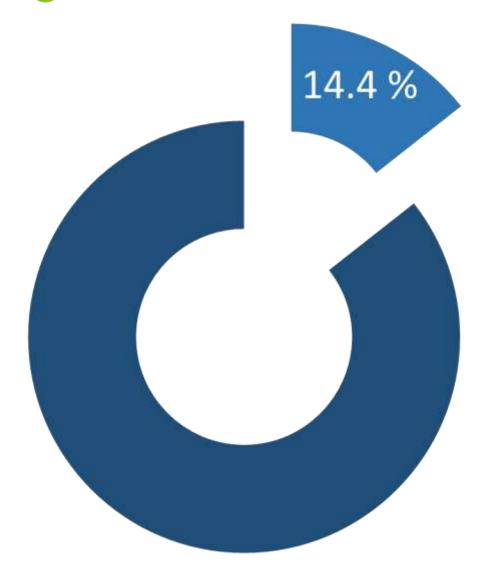
- 1. What percent of 3.2 kg is 40 gms
- 1.25%
- (b) 4%
- (c) 7%
- (d) 10%

4. If A is 50 % of C, C is 20 % of K , K is 40 % of Z , Then A/K is

- a) 8/10
- b) 6/60
- c)50/100
- d)50/200

5. A's salary is 60% of B's salary which is 40% of C's salary . What percentage of C's salary is A's salary

- a)10
- b)20
- c)30
- d)24





8. A man's income is twice his expenditure. His expenditure is four times his savings. His savings are half his payments. What is his Income?

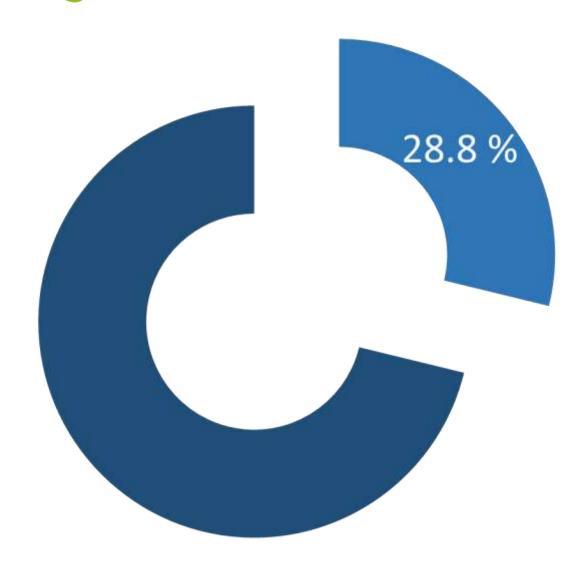
- a) Twice his payments
- b) 200% more than his taxes
- c) 300% more than his taxes
- d) Eight times of his savings

*MODEL-3

- 9. Rohit spends 30% of his salary on food, 20% on house rent, 5% on entertainment and 5% on conveyance. If his savings at the end of a month are Rs. 8000, then his monthly salary is:
- (a)Rs.20,000
- (b)Rs.25,000
- (c)Rs.30,000
- (d) Rs.34,000

10. Krishna earns 40,000 p.m. He spends 20% on taxes. Of the remaining, he spends one - fourth on rent, half on petrol, one third on electricity and rest goes in the savings. What amount of Krishna's income is he able to save?

- a) 10,000
- b) 20,000
- c) 8,000
- d) 12,000



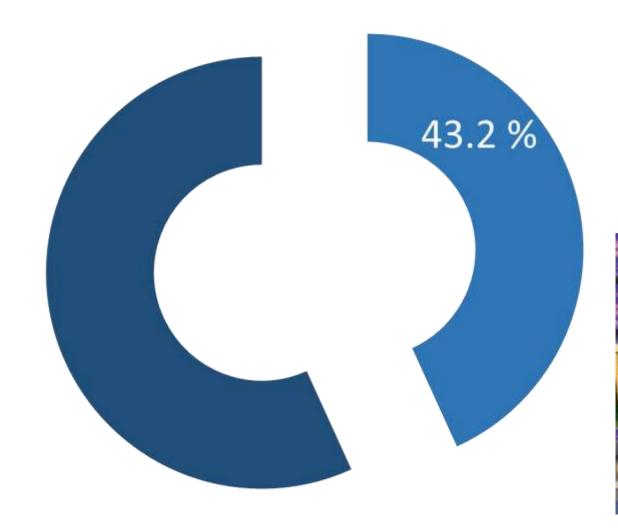


13. The price of a T.V. set is decreased by 30% as a result of which the sale is increased by 20%. What will be the effect on the total revenue of the shop?

- (a)16% decrease
- (b)16% increases
- (C)24% increases
- (d)10% Decrease

15. If the price of the petrol is increased by 20%, by how much percent a car owner must reduces his consumption in order to maintain the same budget?

- (a) 18.6%
- (b)17.6%
- (c)16.6%
- (d)15.6%



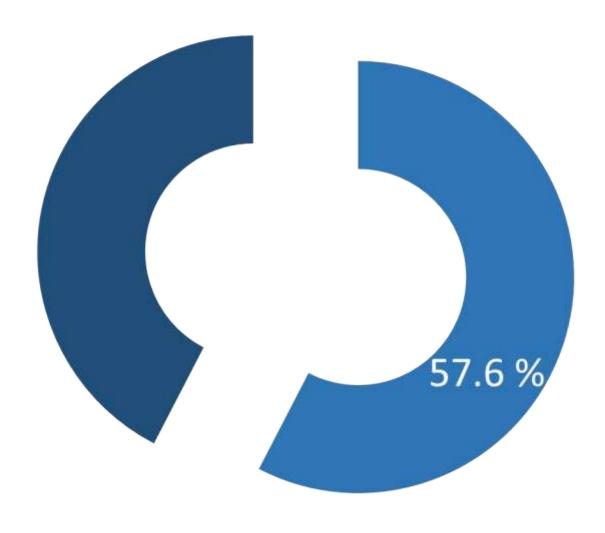


16.A student has to obtain 33% of the total marks to pass. He got 125 marks and failed by 40 marks. The maximum marks are:

- A) 500
- B) 600
- C) 800
- D) 1000

17. 800 boys and 400 girls are examined. 60% of boys and 50% of girls passed. What is the overall percentage of students failed?

- a)43.33
- b)33.33
- c)53.33
- d) none



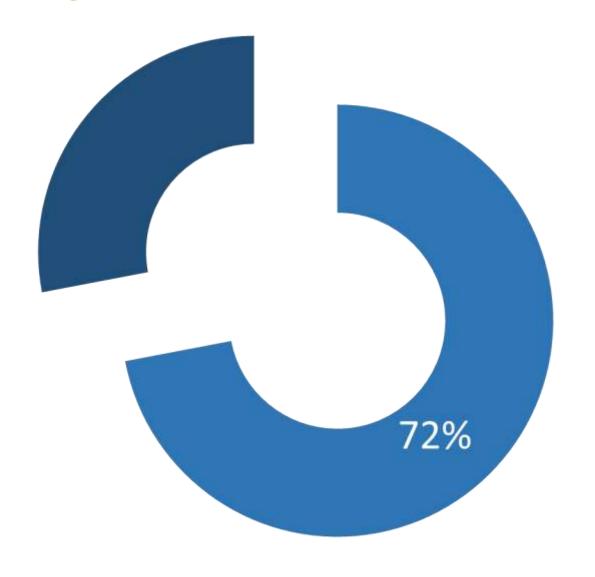


20. In an election a candidate who gets 64% of the votes is elected by a majority of 420 votes. What is the total number of votes polled?

- (a)1500
- (b)600
- (c)400
- (d)1000

21. 10% of the voters did not cast their votes in an election between two candidates, 20% of the voters polled were found invalid. The succeeded candidate got 70% of the valid votes and won by a majority of 720 votes. find the total number of votes listed?

- a)2500
- b)3000
- c)2000
- d)4000



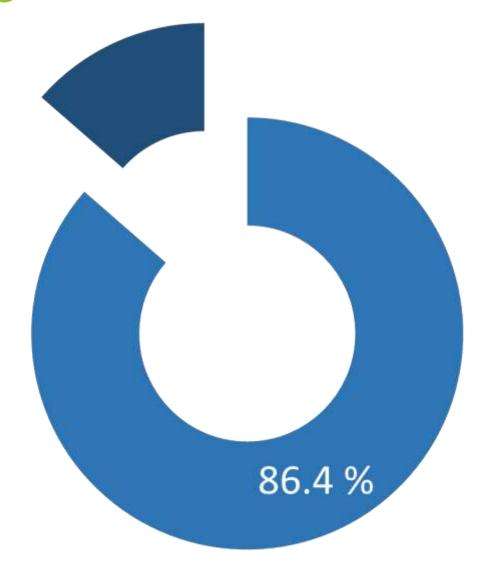


23. Length, Breadth and Height of a cuboid is in the ratio 1:2:3 initially. If the length is doubled and Breadth & height are halved, then what is the change in the volume of the cuboid?

- a) Decreased by 15%
- b) Decreased by 30%
- c) Decreased by 50%
- d) Decreased by 18%

25. Each edge of a cube is increased by 30% then the percentage increase in surface area of the cube is :

- a)144%
- b)40%
- c)44%
- d)69%





26.A survey of n people in the town of badaville found that 20% of them prefer brand A. Other survey of 150 people in the town of chottaville found that 50% prefer brand A. In total 40% of all the people surveyed together prefer Brand A. What is the total number of people surveyed?

- a) 500
- b) 225
- c) 450
- d) none

27. In 50 gm alloy of gold and silver the gold is 80% by weight. How much gold should be mixed to this alloy so that the weight of gold would become 95%

- (a)200gm
- (b)150gm
- (c)50gm
- (d)10gm

