



MATHS

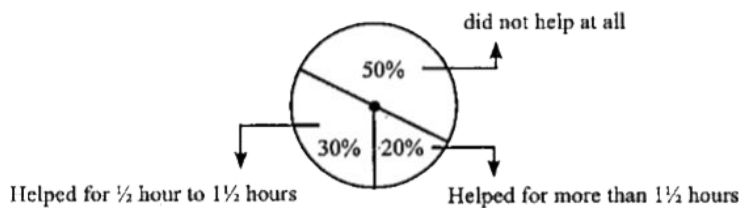
BOOKS - SWAN PUBLICATION

COMPARING QUANTITIES

Try These

1. In a primary school, the parents were asked about the number of hours they spent per day in helping their. Children to do home work.

There were 90 parents who helped for $\frac{1}{2}$ hour to $1\frac{1}{2}$ hours. The distribution of parents according to the time for which, they said they helped is given in the figure below : 20% helped for more than $1\frac{1}{2}$ hours per day, 30% helped for $\frac{1}{2}$ hour to $1\frac{1}{2}$ hours, 50% did not help at all.



Using this, answer the following:

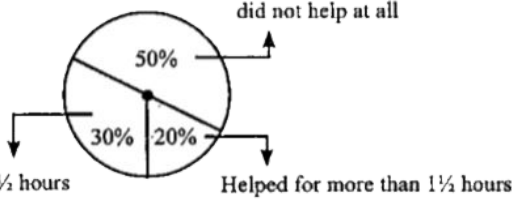
How many said that they helped for more than

$1\frac{1}{2}$ hours?



Watch Video Solution

2. In a primary school, the parents were asked about the number of hours they spent per day in helping their children to do home work. There were 90 parents who helped for $\frac{1}{2}$ hour to $1\frac{1}{2}$ hours. The distribution of parents according to the time for which, they said they helped is given in the figure below : 20 % helped for more than $1\frac{1}{2}$ hours per day, 30 % helped for $\frac{1}{2}$ hour to $1\frac{1}{2}$ hours, 50 % did not help at all.



Using this, answer the following:

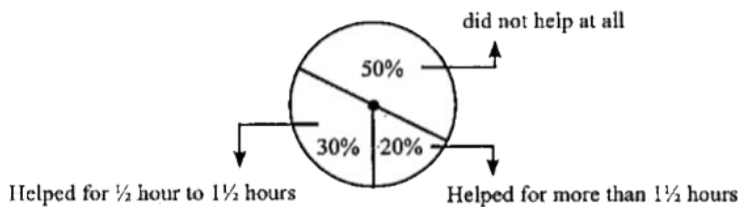
How many said that they helped for more than $1\frac{1}{2}$ hours?



Watch Video Solution

3. In a primary school, the parents were asked about the number of hours they spent per day in helping their children to do home work. There were 90 parents who helped for $\frac{1}{2}$ hour

to $1\frac{1}{2}$ hours. The distribution of parents according to the time for which, they said they helped is given in the figure below : 20 % helped for more than $1\frac{1}{2}$ hours per day, 30 % helped for $\frac{1}{2}$ hour to $1\frac{1}{2}$ hours, 50 % did not help at all.



Using this, answer the following:

How many said that they helped for more than $1\frac{1}{2}$ hours?



[Watch Video Solution](#)

4. A shop gives 20 % discount. What would the sale price of each of these be ?

A dress marked at Rs. 120.



[Watch Video Solution](#)

5. A shop gives 20 % discount. What would the sale price of each of these be ?

A pair of shoes marked at Rs. 750.



[Watch Video Solution](#)

6. A shop gives 20 % discount. What would the sale price of each of these be ?

A bag marked at Rs.250.



[Watch Video Solution](#)

7. A table marked at Rs.15,000 is available for Rs. 14,400. Find the discount given and the discount per cent.



[Watch Video Solution](#)

8. An almirah is sold at Rs.5225 after allowing a discount of 5%. Find its marked price.



Watch Video Solution

9. Your bill in a shop is Rs 577.80.

Try estimating 20 % of the same bill amount.



Watch Video Solution

10. Your bill in a shop is Rs 577.80.

Try finding 15 % of Rs 375



[Watch Video Solution](#)

11. Find selling price (SP) if a profit of 5% is made on :

a cycle of Rs.700 with Rs.50 as overhead charges.



[Watch Video Solution](#)

12. Find selling price (SP) if a profit of 5% is made on :

a lawn mower bought at Rs.1150 with Rs. 50 as transportation charges.



[Watch Video Solution](#)

13. Find selling price (SP) if a profit of 5% is made on :

a fan bought for Rs.560 and expenses of Rs.40 made on its repairs.



[Watch Video Solution](#)

14. A shopkeeper bought two TV sets at Rs.10,000 each. He sold one at a profit of 10 % and the other at a loss of 10 %. Find whether he made an overall profit or loss.



Watch Video Solution

15. Find the buying price of each of the following when 5% ST is added on the purchase of :

A towel at Rs.50.





[Watch Video Solution](#)

16. Find the buying price of each of the following when 5 % ST is added on the purchase of

Two bars of soap at Rs 35 each



[Watch Video Solution](#)

17. If 8% VAT is included in the prices ,find the original price of

A TV bought for Rs.13,500.



[Watch Video Solution](#)

18. If 8% VAT is included in the prices ,find the original price of, A shampoo bottle bought for Rs.180.



[Watch Video Solution](#)

19. Find the interest and amount to be paid on Rs 15000 at 5% per annum after 2 years



[Watch Video Solution](#)

20. Find CI on a sum of Rs. 8000 ofr 2 years at 5% per annum comounded annually.



Watch Video Solution

21. Find the time period and rate for each.

A sum taken for $1\frac{1}{2}$ years at 8% per annum is compounded half yearly.



Watch Video Solution

22. Find a time period and a rate for each A sum taken for 2 years at 4% per annum is compounded half yearly.



Watch Video Solution

23. At the end of 2 years on Rs.2,400 at 5% per annum compounded annually.



Watch Video Solution

24. At the end of 1 year on Rs.1,800 at 8% per annum compounded quarterly.



Watch Video Solution

25. A machinery worth Rs.10,500 depreciated by 5% .Find its value after one year.



Watch Video Solution

26. Find population of a city after 2 years, which is at present 12 lakh, if the rate of increase is 4%.



[Watch Video Solution](#)

Think Discuss And Write

1. Two times a number is a 100% increase in the number. If we take half the number, what would be the decrease in percent?



[Watch Video Solution](#)

2. By what per cent is Rs. 2,000 less than Rs. 2,400 ?



[Watch Video Solution](#)

3. A sum is taken for one year at 16 % p.a. If interest is compounded after every three months, how many times will interest be charged in one year?



[Watch Video Solution](#)

Exercise 8 1

1. Find the ratio of the following: Speed of a cycle 15 km per hour to the speed of scoter 30 km per hour.



[Watch Video Solution](#)

2. Find the ratio of the following: 5 m to 10 km



[Watch Video Solution](#)

3. Find the ratio of the following: Speed of a cycle 15 km per hour to the speed of scoter 30 km per hour.



[Watch Video Solution](#)

4. Convert the following ratios to percentages
: 3 : 4



[Watch Video Solution](#)

5. Convert the following ratios to percentages

: 2 : 3



Watch Video Solution

6. 72% of 25 students are good in mathematics. How many are not good in mathematics?



Watch Video Solution

7. A football team won 10 matches out of the total number of matches they played. If their win percentage was 40, then how many matches did they play in all?



[Watch Video Solution](#)

8. If Chemeli had Rs 600 left after spending 75% of her money, how much did she have in the beginning?



[Watch Video Solution](#)

9. If 60% people in a city like cricket, 30% like football and the remaining like other games, then what per cent of the people like other games? If the total number of people are 50 lakh, find the exact number who like each type of game.



[Watch Video Solution](#)

Exercise 8 2

1. A man got a 10% increase in his salary. If his new salary is Rs 1,54,000, find his original salary.



[Watch Video Solution](#)

2. On Sunday 845 people went to the Zoo. On Monday only 169 people went. What is the per cent decrease in the people visiting the Zoo on Monday?



[Watch Video Solution](#)

3. A shopkeeper buys 80 articles for Rs 2,400 and sells them for a profit of 16%. Find the selling price of one article.



[Watch Video Solution](#)

4. The cost of an article was Rs 15,500. Rs 450 were spent on its repairs. If it is sold for a profit of 15%, find the selling price of the article.



[Watch Video Solution](#)

5. A VCR and TV were bought for Rs 8,000 each. The shopkeeper made a loss of 4% on the VCR and a profit of 8% on the TV. Find the gain or loss percent on the whole transaction.



[Watch Video Solution](#)

6. During a sale, a shop offered a discount of 10% on the marked prices of all the items. What would a customer have to pay for a pair

of jeans marked at Rs 1450 and two shirts marked at Rs 850 each?



[Watch Video Solution](#)

7. A milkman sold two of his buffaloes for Rs 20,000 each. On one he made a gain of 5% and on the other a loss of 10%. Find his overall gain or loss.



[Watch Video Solution](#)

8. The price of a TV is Rs 13,000. The sales tax charged on it is at the rate of 12%. Find the amount that Vinod will have to pay if he buys it.



[Watch Video Solution](#)

9. Arun bought a pair of skates at a sale where the discount given was 20%. If the amount he pays is Rs 1,600, find the marked price.



[Watch Video Solution](#)

10. I purchased a hair-dryer for Rs 5,400 including 8% VAT. Find the price before VAT was added.



[Watch Video Solution](#)

Exercise 8 3

1. Calculate the amount and compound interest on : Rs 10,800 for 3 years $12\frac{1}{2}\%$ per annum compounded annually.



[Watch Video Solution](#)

2. Calculate the amount and compound interest on : Rs 18,000 for $2\frac{1}{2}$ years at 10% per annum compounded annually.



[Watch Video Solution](#)

3. Calculate the amount and compound interest on : Rs 62,500 for $1\frac{1}{2}$ years at 8% per annum compounded half yearly.



[Watch Video Solution](#)

4. Calculate the amount and compound interest on : Rs8,000 for 1 year at 9% per annum compounded half yearly. (You could use the year by year calculation using SI formula to verify).



[Watch Video Solution](#)

5. Calculate the amount and compound interest on : Rs 10,000 for 1 year at 8% per

annum compounded half yearly.



[Watch Video Solution](#)

6. Kamala borrowed Rs 26,400 from a Bank to buy a scooter at a rate of 15% p.a. compounded yearly. what amount will she pay at the end of 2 years and 4 months to clear the loan?



[Watch Video Solution](#)

7. Fabina borrows Rs 12,500 at 12% per annum for 3 years at simple interest and Radha borrows the same amount for the same time period at 10% per annum, compounded annually. Who pays more interest and by how much?



[Watch Video Solution](#)

8. I borrowed Rs 12,000 from Jamshed at 6% per annum simple interest for 2 years. Had I

borrowed this sum at 6% per annum compound interest, what extra amount would I have to pay?



[Watch Video Solution](#)

9. Vasudevan invested Rs 60,000 at an interest rate of 12% per annum compounded half yearly. What amount would he get after 1 year?



[Watch Video Solution](#)

10. Vasudevan invested Rs 60,000 at an interest rate of 12% per annum compounded half yearly. What amount would he get after 1 year?



Watch Video Solution

11. Arif took a loan of Rs 80,000 from a bank. If the rate of interest is 10% per annum, find the difference in amounts he would be paying

after $1\frac{1}{2}$ years if the interest is : compounded
half yearly



[Watch Video Solution](#)

12. Arif took a loan of Rs 80,000 from a bank. If the rate of interest is 10% per annum, find the difference in amounts he would be paying after $1\frac{1}{2}$ years if the interest is : compounded half yearly



[Watch Video Solution](#)

13. Maria invested Rs 8,000 in a business. She would be paid interest at 5% per annum compounded annually. Find : The amount credited against her name at the end of the second year.



Watch Video Solution

14. Maria invested Rs 8,000 in a business. She would be paid interest at 5% per annum compounded annually. Find : The interest for the 3rd year.



[Watch Video Solution](#)

15. Find the amount and the compound interest on Rs 10,000 for $1\frac{1}{2}$ years at 10% per annum, compounded half yearly. Would this interest be more than the interest he would get if it was compounded annually?



[Watch Video Solution](#)

16. Find the amount which Ram will get on Rs.4096,if he gave it for 18 months at $12\frac{1}{2}\%$ per annum, interest being comounded half yearly.



[Watch Video Solution](#)

17. The population of a place increased to 54,000 in 2003 at a rate of 5% per annum : find the population in 2001.



[Watch Video Solution](#)

18. The population of a place increased to 54,000 in 2003 at a rate of 5% per annum : what would be its population in 2005?



Watch Video Solution

19. In a Laboratory, the count of bacteria in a certain experiment was increasing at the rate of 2.5% per hour. Find the bacteria at the end of 2 hours if the count was initially 5, 06,000.



Watch Video Solution

20. A scooter was bought at Rs 42,000. Its value depreciated at the rate of 8% per annum. Find its value after one year.



[Watch Video Solution](#)