



MATHS

NCERT - NCERT Mathematics(English)

COMPARING QUANTITIES

Exercise 8.3

1. Arun bought a car for Rs 3,50,000. The next year, the price went upto Rs 3,70,000. What was the Percentage of price increase?

A. $\frac{30}{7} \%$

B. $\frac{40}{7} \%$

C. $\frac{45}{7} \%$

D. $\frac{50}{7} \%$

Answer: B



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2. I buy a T.V. for Rs 10,000 and sell it at a profit of 20%. How much money do I get for it?



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3. If Meena gives an interest of Rs 45 for one year at 9% rate p.a.. What is the sum she has borrowed?



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4. Tell what is the profit or loss in the following transactions. Also find profit per cent or loss per cent in each case. (a) Gardening shears bought for Rs 250 and sold for Rs 325.

(b) A refrigerator bought for Rs 12,000 and sold at Rs 13,500.(c) A cupboard bought for Rs 2,500 and sold at Rs 3,000.(d) A skirt bought for Rs 250 and sold at Rs 150.



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5. Juhi sells a washing machine for Rs 13,500. She loses 20% in the bargain. What was the price at which she bought it?



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6. (i) Chalk contains calcium, carbon and oxygen in the ratio $10 : 3 : 12$. Find the percentage of carbon in chalk.

(ii) If in a stick of chalk, carbon is 3 g , what is the weight of the chalk stick?



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7. Convert each part of the ratio to percentage:

(a) $3:1$

(b) $2:3:5$

(c) 1:4

(d) 1: 2:5



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8. What rate gives Rs 280 as interest on a sum of Rs 56,000 in 2 years?



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9. Amina buys a book for Rs 275 and sells it at a loss of 15%. How much does she sell it for?



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10. Find the amount to be paid at the end of 3 *years* in each case:

(a) Principal = Rs 1, 200 at 12 % p.a.

(b) Principal = Rs 7, 500 at 5 % p.a.



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11. The population of a city decreased from 25,000 to 24,500. Find the percentage

decrease.



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Solved Examples

1. Convert the given decimals to per cents:(a)

0.75 (b) 0.09 (c) 0.2



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2. What per cent of the adjoining figure is shaded?



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3. A survey of 40 children showed that 25% liked playing football. How many children liked playing football

A. 10

B. 20

C. 30

D. 40

Answer: A



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4. Rahul bought a sweater and saved Rs 20 when a discount of 25% was given. What was the price of the sweater before the discount?



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5. Reena's mother said, to make idlis, you must take two parts rice and one part urad dal. What percentage of such a mixture would be rice and what percentage would be urad dal?



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6. If $\text{Rs } 250$ is to be divided amongst Ravi, Raju and Roy, so that Ravi gets two parts, Raju three parts and Roy five parts. How much

money will each get? What will it be in percentages?



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7. A school team won 6 games this year against 4 games won last year. What is the per cent increase?



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8. The number of illiterate persons in a country decreased from 150 lakhsto 100 lakhs in 10 years. What is the percentage of decrease?



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9. The cost of a flower vase is Rs 120. If the shopkeeper sells it at a lossof 10%, find the price at which it is sold.



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10. Selling price of a toy car is Rs 540. If the profit made by shopkeeper is 20%, what is the cost price of this toy?



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11. Write $\frac{5}{4}$ as per cent



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12. The car that I own can go 150 km with 25 litres of petrol. How far can it go with 30 litres of petrol?

A. 180 km

B. 150 km

C. 160 km

D. 140 km

Answer: A



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13. 6 bowls cost $Rs90$. What would be the cost of 10 such bowls?



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14. A map is given with a scale of $2\text{ cm} = 1000\text{ km}$. What is the actual distance between the two places in kms, if the distance in the map is 2.5 cm ?



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15. Following is the performance of a cricket team in the matches it played:



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16. Are the ratios 1:2 and 2:3 equivalent?



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17. Find the ratio of 3 km to 300 m



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18. If Manohar pays an interest of Rs 750 for 2 years on a sum of Rs 4,500, find the rate of interest.



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19. Anita takes a loan of Rs 5000 at 15% per year at rate of interest. Find the interest she has to pay at end of one year.



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20. Convert $\frac{1}{3}$ to per cent



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21. Out of 25 children in a class, 15 are girls.

What is the percentage of girls?



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Exercise 8 1

1. Find the ratio of: (a) Rs 5 to 50 paise (b) 15 kg to 210 g (c) 9 m to 27 cm (d) 30 days to 36 hours



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2. In a computer lab, there are 3 computers for every 6 students. How many computers will be needed for 24 students?



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3. Population of Rajasthan = 570 lakhs and population of UP = 1660 lakhs. Area of Rajasthan = 3 lakh km² and area of UP = 2 lakh km². (i) How many people are there per km² in both these States? (ii) Which State is less populated?



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Exercise 8 2

1. Convert the given fractional numbers to per cents.



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2. Estimate what part of the figures is coloured and hence find the per cent which is coloured.



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3. Convert the given decimal fractions to per cents.(a) 0.65 (b) 2.1 (c) 0.02 (d) 12.35



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4. Find the whole quantity if(a) 5% of it is 600.
(b) 12% of it is Rs 1080. (c) 40% of it is 500 km.
(d) 70% of it is 14 minutes. (e) 8% of it is 40 litres.



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5. Find:(a) 15% of 250 (b) 1% of 1 hour (c) 20% of Rs 2500 (d) 75% of 1 kg



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6. In a city, 30% are females, 40% are males and remaining are children. What per cent are children



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7. Convert given per cents to decimal fractions and also to fractions in simplest forms:(a) 25%
(b) 150% (c) 20% (d) 5%



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8. Meeta saves Rs 400 from her salary. If this is 10% of her salary. What is her salary?



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9. Out of 15,000 voters in a constituency, 60% voted. Find the percentage of voters who did not vote. Can you now find how many actually did not vote?



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10. A local cricket team played 20 matches in one season. It won 25% of them. How many matches did they win?



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