



MATHS

NCERT - NCERT Maths(TELUGU)

RATIO - APPLICATIONS

Example

1. Find \square to complete the proportion : $2:5=6:$

\square



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2. Find \square to complete the proportion :

$$16:20 = \square : 35$$



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3. A shopkeeper sells 5 tumblers for ₹ 30. What would be the cost of 10 tumblers?



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4. What is the cost of 9 bananas if the cost of a dozen bananas of ₹20?



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5. A shopkeeper sells 6 eggs for ₹30, What would be the cost of 10 eggs?



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6. 20 kgs of rice is needed for a family of 4 members. How many kgs of rice will be required if the number of members in the house increases to 10?



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7. A jeep travels 90 km in 3hrs at a constant speed. In how many hours will the jeep covers 150km?



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8. The scale of a map is given as 1:30000. Two cities are 4 cm apart on the map. Find the actual distance between them.



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9. In a class there are 35 girls and 15 boys. What is the percentage of boys and what is the percentage of girls?



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10. Shirt "A" has $\frac{3}{5}$ cotton where as shirt "B" has $\frac{3}{4}$ cotton.

(i) What is the percentage of cotton in each shirt?

(ii) Which shirt has more percentage of cotton?



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11. Ganga went to a tailor with 1 mt. cloth. She asked him to make a blouse to her. The tailor

used 0.75mts of cloth to make the blouse and returned the remaining cloth to Ganga. What percentage of the cloth is used in making the blouse?



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12. Last year the cost of a commodity was ₹40. This year, the cost of the commodity increased to ₹50. The percentage of change in its price is _____



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13. Shyam's monthly Income is ₹10,000. He spends 60% of it on family expenses 10% on medical expenses, 5% on donations and saves by 25% Find the amount he spends on each item?



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14. Ramayya bought pens for ₹200 and he sold them for ₹210 whereas Somayya bought pens

for ₹500 and he sold them for ₹575. Who made more profit?



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15. A shopkeeper bought a TV for ₹9000 and be sold it for ₹10,000. Find the profit or loss. Calculate percentage.



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16. Suppose a person buys an article for ₹650 /
- and gains 8% on selling it. Find the selling
price.



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17. Ramesh sold a D.V.D player for ₹2800 at a
gain of 12%. For how much did he buy it?



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18. Malik sells two tables for 3000 each. He gains 20% on one table and on the other he loses 20%. Find his gain or loss percent on the whole transaction.



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19. The cost of an article goes down every year by 20% of its previous value. Find its original cost if the cost of it after 2 years is ₹19,200.



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20. A shopkeeper marks his goods 25% above the cost price and allows a discount of 12% on them. What percent does he gain?



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21. Sunita takes a loan of ₹5000 at 12% rate of interest. Find the interest she has to pay at the end of one year.



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22. In what time will ₹6880 amount to ₹7224, if simple interest is calculated at 10% per annum?



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23. What sum will yield an interest of ₹3927 in 2 years and 4 months at 8% per annum?



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24. At what rate per annum will ₹6360 yield an interest of ₹1378 in $2\frac{1}{2}$ years ?



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25. At what rate per annum will the principle triples in 16 years?



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26. Find \square to complete the proportion :

$$2:5=6:\square$$



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27. Find \square to complete the proportion :

$$16:20 = \square : 35$$



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used 0.75mts of cloth to make the blouse and returned the remaining cloth to Ganga. What percentage of the cloth is given back to Ganga?



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39. Last year the cost of a commodity was ₹50. This year, the cost of the commodity increased to ₹60. What is the percentage change in its price?



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[Try This](#)

1. Think of some real life situations in which you have to compare quantities in the form of a ratio.



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2. Place a 1 litre empty bottle under a tap from which water is falling drop by drop due to leakage. How much time did it take to fill the bottle? Calculate how much water would be wasted in a year.



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3. Take a clock and fix its minutes hand at 12.

Note the angles made by minutes hand in the given intervals of time :

Time Passed	(T_1)	(T_2)	(T_3)	(T_4)
(in minutes)	15	30	45	60
Angle turned	(A_1)	(A_2)	(A_3)	(A_4)
(in degree)	90



Is the

angle turned through by the minute hand directly proportional to the time that has passed? Yes!

From the above table, you can also see

$T_1, T_2 = A_1 : A_2$, becausee

$$T_1 : T_2 = 15 : 30 = 1 : 2$$

$$A_1 : A_2 = 90 : 180 = 1 : 2$$

Check if

$$T_2 : T_3 = A_2 : A_3 \text{ and } T_3 : T_4 = A_3 : A_4$$

You can repeat this activity by choosing your own time interval.



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4. Population of our country as per 2011 census is about 12×10^8 (120,00,00,000) If the population of our country increases by 3 %

every year. What will be the population by 2012?



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5. Can you eat 75% of a dosa?



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6. Can the price of an item go up by 90%?



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7. Can the price of an item go up by 100%?



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8. The cost price of 12 mangoes is equal to the selling price of 15 mangoes. Find the loss percent?



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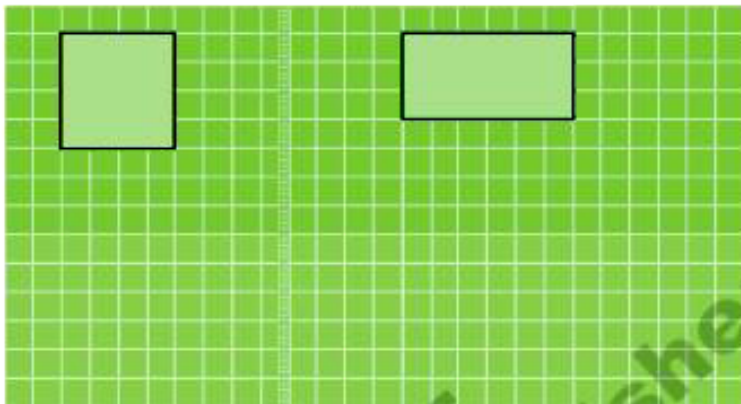
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Do This

1. Enlarge the square and rectangle such that the enlarged square and rectangle remain proportional to the original square and rectangle.





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2. 40 benches are required to seat 160 students. How many benches will be required to seat 240 students at the same rate ?



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3. When a Robin bird flies, it flaps wings 23 times in ten seconds. How many times will it flap its wings in two minutes?



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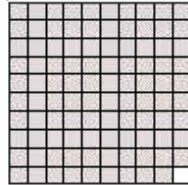
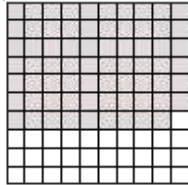
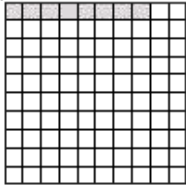
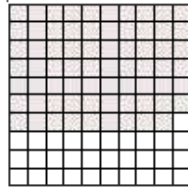
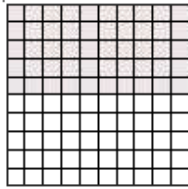
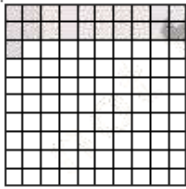
4. The average human heart beats at 72 times per minute. How many times does it beat in 15 seconds? How many in an hour?



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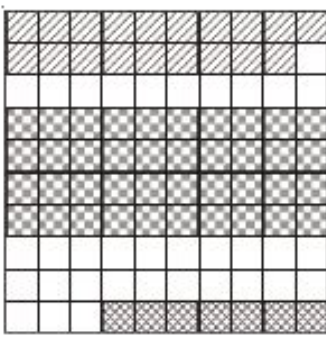
5. Given below are various grids of 100 squares. Each has a different number of squares coloured. In each case, write the coloured and white part in the form of a (1)

Percentage, (2) Fraction and (3) Decimal.




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6. Look at the grid paper given below. It is shaded in various designs.




Find the percentage of each design

What percent represents  ?

What percent represents  ?

What percent represents  ?

What percent represents  ?



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7. Find the interest on a sum of ₹8250 for 3 years at the rate of 8% per annum.



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8. ₹3000 is lent out at 9% rate of interest. Find the interest which will be received.



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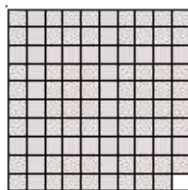
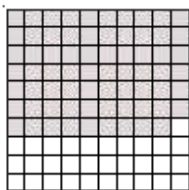
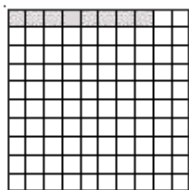
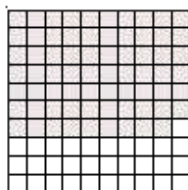
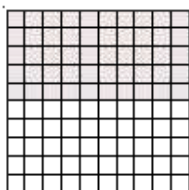
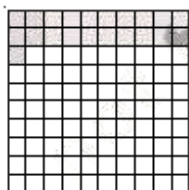
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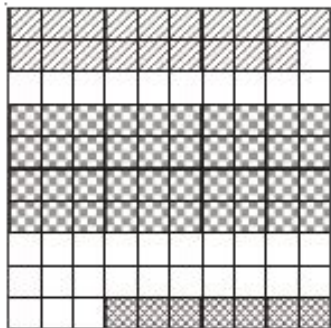
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Exercise 1

1. What is the ratio of ₹100 and ₹10 ? Express your answer in simplest form.



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2. Sudha has ₹ 5. Money with Radha is 3 times the money with Sudha. How much money does Radha have?



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3. Sudha has ₹ 5. Money with Radha is 3 times the money with Sudha. How much money does Radha have?



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4. Divide 96 chocolates between Raju and Ravi in the ratio 5 : 7.



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5. The length of a line segment AB is 38 cm. A point X on it divides it in the ratio 9:10. Find the length of the line segments AX and XB.



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6. sum of ₹1,60,000 is divided in the ratio 3:5.

What is the smaller share?



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7. To make green paint, a painter mixes yellow paint and blue paint in the ratio of 3:2. If he used twelve liters of yellow paint, how much blue paint did he use?



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8. A rectangle measures 40 cm at its length and 20 cm at its width. Find the ratio of the length to the width.



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9. The speed of a garden-Snail is 50 meters per hour and that of the Cheetah is 120 kilometers per hour. Find the ratio of the speeds.



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10. Find i) The ratio of boys and girls in your class. ii) The ratio of number of door and number of windows of your classroom. iii) The ratio of number of text books and number of note books with you.



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Exercise 2

1. Find the missing numbers in the following proportions in the table given below .

S.No.	Proportion	Product of extremes	Product of means
(i)	1 : 2 :: 4 : 8		
(ii)	5 : 6 :: 75 : 90		
(iii)	3 : 4 :: 24 : 32		
(iv)	2 : 5 :: <input type="text"/> : 15	30	
(v)	3 : 6 :: 12 : <input type="text"/>		72



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2. Write true or false. i) $15 : 30 :: 30 : 40$, ii) $22 : 11 :: 12 : 6$.



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3. Write true or false : $22:11: :12:6$



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4. Write true or false : $90:30 :: 36:12$



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5. Write true or false : $32:64 :: 6:12$



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6. Write true or false : $25:1 :: 40:160$



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7. Madhu buys 5 kg of potatoes at the market. If the cost of 2 kg is ₹36, how much will Madhu pay?



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8. Physics tells us that weights of an object on the moon are proportional to its weight on Earth. Suppose a 90 kg man weighs 15kg on

the moon. What will be a 60 kg woman weigh on the moon?



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9. A disaster relief team consists of engineers and doctors in the ratio of 2:5. i) If there are 18 engineers, find the number of doctors. ii) If there are 65 doctors, find the number of engineers.



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11. The ratio of two angles is 3: 1. Find the larger angle if the smaller is 180°



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Exercise 3

1. A length of a bacteria enlarged 50,000 times attains a length of 5 cm. What is the actual length of the bacteria? If the length is enlarged 20,000 times only, what would be its enlarged length?



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2. Observe the following tables and find if x is directly proportional .

x	20	17	14	11	8	5	2
y	40	34	28	22	16	10	4



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3. Observe the following tables and find if x is directly proportional .

x	6	10	14	18	22	26	30
y	4	8	12	16	20	24	28



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4. Observe the following tables and find if x is directly proportional .

x	5	8	12	15	18	20	25
y	15	24	36	60	72	100	125



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5. Sushma has a road map with a scale of 1 cm representing 18 km. She drives on a road for 72 km. What would be her distance covered in the map?



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6. On a Grid paper, draw five squares of different sizes. Write the following

information in a tabular form.

	Square 1	Square 2	Square 3	Square 4	Square 5
Length of a side (L)					
Perimeter (P)					
Area (A)					

Find whether the length of a side is in direct proportion to:

the perimeter of the square.



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Exercise 4

1. In a school X, 48 students appeared for 10th class exam out of which 36 students passed. In

another school Y, 30 students appeared and 24 students passed. If the District Educational Officer wants to give an award on the basis of pass percentage. To which school will he give the award?



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2. Last year the cost of 1000 articles was ₹ 5000. This year it goes down to ₹4000. What is the percentage of decrease in price ?



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3. Sri Jyothi has a basket full of bananas, oranges and mangoes. If 50% are bananas, 15% are oranges, then what percent are mangoes?



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4. $64\% + 30\% + \dots\dots\dots? \dots\dots\dots = 100\%$



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5. On a rainy day, out of 150 students in a school 25 were absent. Find the percentage of students absent from the school? What percentage of students are present?



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6. Out of 12,000 voters in a constituency, 60% voted. Find the number of people voted in the constituency.



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7. A local cricket team played 20 matches in one season. If it won 20% of them and lost rest. How many matches did it loose?



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8. In every gram of gold, a goldsmith mixes 0.25 grams of sliver and 0.05 grams of copper. What is the percentage of gold, silver and copper in every gram of gold?



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9. 40% of a number is 800 then find the number?



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10. In a school X, 48 students appeared for 10th class exam out of which 36 students passed. In another school Y, 30 students appeared and 24 students passed. If the District Educational Officer wants to give an award on the basis of

pass percentage. To which school will he give the award?



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11. Last year the cost of 1000 articles was ₹5000. This year it goes down to ₹4000. What is the percentage of decrease in price?



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12. Sri Jyothi has a basket full of bananas, oranges and mangoes. If 50% are bananas, 15% are oranges, then what percent are mangoes?



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13. $64\% + 20\% + \dots? = 100\%$



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14. On a rainy day, out of 150 students in a school 25 were absent. Find the percentage of students absent from the school? What percentage of students are present?



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15. Out of 12,000 voters in a constituency, 60% voted. Find the number of people voted in the constituency.



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16. A local cricket team played 20 matches in one season. If it won 20% of them and lost rest. How many matches did it loose?



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17. In every gram of gold, a goldsmith mixes 0.25 grams of sliver and 0.05 grams of copper. What is the percentage of gold, silver and copper in every gram of gold?



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18. 40% of a number is 800 then find the number?



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Exercise 5

1. A shopkeeper bought a suitcase for ₹480 and sold it for ₹540. Find his gain percent.



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2. Ajay bought a TV for ₹15,000 and sold it for ₹14,100. Find the loss per cent.



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3. Ramu sold a plot of land for ₹2,40,000 gaining 20%. For how much did he purchase the plot ?



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4. On selling a mobile for ₹750, a shopkeeper loses 10%. For what amount should he sell it to gain 5%?



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5. A farmer sold 2 bullocks for ₹24000 each. On one bullock he gained 25% and on the other he lost 20%. Find his total profit or loss percent?



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6. Sravya bought a watch for ₹480. She sold it to Ridhi at a gain of $6\frac{1}{4}\%$. Ridhi sold it to Divya at a gain of 10%. How much did Diya pay for it?



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7. The marked price of a book is Rs. 225. The publisher allows a discount of 10% on it. Find the selling price of it.



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8. A carpenter allows 15% discount on his goods. Find the marked price of a chair which is sold by him for ₹680?



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9. A dealer allows a discount of 10% and still gains by 10%. What should be the marked price if the cost price is ₹900?



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Exercise 6

1. How long will it take for a sum of ₹12600 invested at 9% per annum become to ₹15624?





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2. At what rate a sum doubles itself in 8 years 4 months?



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3. A child friendly bank announces a savings scheme for school children. They will give kiddy banks to children. Children have to keep their savings in it and the bank collects all the money once in a year. To encourage children

savings, they give 6% interest if the amount exceeds by ₹10,000, and other wise 5%. Find the interest received by a school if they deposit is ₹9000 for one year.



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4. A sum of money invested at 8% per annum for simple interest amounts to ₹12122 in 2 years. What will it amounts to in 2 years 8 months at 9% rate of interest?



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5. In 4 years, ₹6500 amounts to ₹8840 at a certain rate of interest. In what time will ₹1600 amounts to ₹1816 at the same rate?



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6. How long will it take for a sum of ₹12600 invested at 9% per annum become to ₹15624?



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