



MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

PERCENTAGE

Solved Examples

1. Express each of the following as a fraction

(i) 36% (ii) 120% (iii) 0.8 %



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2. Express each of the following as a decimal :

(i) 80 % (ii) 8% (iii) 205 %



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3. Express each of the following fractions as percentage :

(i) $\frac{7}{25}$ (ii) $\frac{5}{8}$ (iii) $\frac{11}{6}$



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4. convert the ratio 3 : 4 to percentage .



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5. Express 36% as a ratio .



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6. Which is largest in $16\frac{2}{3}\%$, $\frac{2}{15}$ and 0.12 ?



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7. (i) what per cent of 120 is 90 ?

(ii) what per cent of 1 kg is 5 g ?

(iii) what per cent of 3.5 L is 150 mL ?



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8. Find $7\frac{1}{2}\%$ of Rs. 2400.

A. 100

B. 120

C. 180

D. 160

Answer: C



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9. If 26% of a number is 65 , find the number .

A. 450

B. 350

C. 250

D. 750

Answer: C



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10. Sarita spends 65% of her salary and the rest she saves . If she saves Rs. 2940 per month , what is her monthly salary ?

A. 7400

B. 8400

C. 6400

D. 5400

Answer: B



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11. In a class the girls are 60 % of the total number of students and the boys are 18 in number . How many students are there in the class ?

A. 35

B. 25

C. 45

D. 55

Answer: C



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12. A number is increased by 20 % and then decreased by 20 % find the net increase or decrease per cent ?



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13. In an examination , one requires 40 % marks to pass , Vivek gets 185 marks and fails by 15 marks . What are the maximum marks ?

A. 500

B. 400

C. 300

D. 600

Answer: A



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14. Out of her total monthly salary . Tanvy spends 30 % on house rent and 60 % of the rest on household expenditure . If she saves Rs. 10500 . What is her total monthly salary ?

A. Rs 32900

B. Rs 35000

C. Rs 40000

D. Rs 37500

Answer: D



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15. The price of sugar goes up by 20 % by have much per cent must a housewife reduce her consumption of sugar so that the expenditure on sugar remains the same ?



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16. The population of a term increases by 6% annually . IF the present population is 17490 . What was it a year ago ?



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17. The value of a machine depreciates every year by 10 % . If the present value of the machine by Rs. 99000. what was its value last year ?



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18. A's income is 60 % more than that of B , by what per cent is B 's income less than A 's ?

A. 35.5 %

B. 37.5 %

C. 36.5

D. 33.5 %

Answer: B



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Exercise 9 A

1. Express each of the following as a fraction :

(i) 48% (ii) 220% (iii) 2.5%



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2. Express each of the following as a decimal :

(i) 6% (ii) 72 % (iii) 125 %



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3. Express each of the following as a percentage :

(i) $\frac{9}{25}$ (ii) $\frac{3}{125}$ (iii) $\frac{12}{5}$



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4. convert the ratio 4:5 to percentage .



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5. Express 125 % as a ratio .



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6. Which is largest in $6\frac{2}{3}\%$, $\frac{3}{20}$ and 0.14 ?



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7. (i) what per cent of 150 is 96 ?

(ii) what per cent of 5 Kg is 200 g ?

(iii) what per cent of 2 Litres is 250 mL ?



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8. Find $4\frac{1}{2}$ % of Rs. 3600 .



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9. IF 16 % of a number is 72 . Find the number .



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10. A man saves 18 % of his monthly income . If he saves Rs. 3780 per month . What is his monthly income ?



11. A football team wins 7 games , which is 35 % of the total games played , how many games were played in all ?

A. 19

B. 22

C. 20

D. 21

Answer: C



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12. Amit was given an increment of 20% on his salary. If his new salary is Rs. 30600. What was his salary before the increment?



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13. Sonal attended her school on 204 days in a full year. If her attendance is 85%, find the number of days on which the school was opened.



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14. A's income is 20% less than that of B. By what per cent is B's income more than A's?



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15. The price of petrol goes up by 10%. By how much per cent must a motorist reduce the consumption of petrol so that the expenditure on it remains unchanged?



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16. The population of a town increases by 8% annually. If the present population is 54000, what was it a year ago?



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17. The value of a machine depreciates every year by 20%. If the present value of the machine be 160000, what was its value last year?



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18. An alloy contains 40% copper, 32% nickel and rest zinc. Find the mass of zinc in one kg of the alloy



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19. Balanced diet should contain 12% of proteins, 25% of fats and 63% of carbohydrates. If a child needs 2600 calories in

his food daily, find in calories the amount of each of these in his daily food intake.



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20. Gunpowder contains 75% nitre and 10% sulphur. Find the amount of gunpowder which carries 9 kg nitre. What amount of gunpowder would contain 2.5 kg sulphur?



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21. Divide Rs 7000 among A, B and C such that A gets 50% of what B gets and B gets 50% of what C gets.



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22. Find the percentage of pure gold in 22-carat gold, if 24-carat gold is 100% pure.



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23. The salary of an officer is increased by 25%.
By what per cent should the new salary be
decreased to restore the original salary?



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Exercise 9 B

1. $\frac{3}{5} = ?$

A. 30 %

B. 40 %

C. 45 %

D. 60 %

Answer:



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2. 0.8% when expressed as a decimal, is

A. 0.08

B. 0.008

C. 8

D. 0.8

Answer:



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3. 6:5 when expressed as a percentage is

A. $83\frac{1}{5}\%$

B. 90 %

C. 120 %

D. 6.5 %

Answer:



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4. 5% of a number is 9. Number is

A. 45

B. 90

C. 135

D. 180

Answer:



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5. What percent of 90 is 120?

A. 75 %

B. $33\frac{1}{5}$ %

C. $133\frac{1}{5}$ %

D. none of these

Answer:



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6. What percent of 10kg is 250 g?

A. 0.25

B. 0.05

C. 0.1

D. 0.025

Answer:



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$$7.40\% \text{ of ?} = 240$$

A. 60

B. 600

C. 6000

D. 960

Answer: *B*



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8. ?% of 400=60

A. 6

B. 12

C. 15

D. 20

Answer:



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9. $(180\% \text{ of } ?)/2=504$

A. 400

B. 480

C. 600

D. 560

Answer:



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10. 20% of Rs 800=?

A. Rs 160

B. Rs 16

C. Rs 1600

D. none of these

Answer: A



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11. In an examination, Nitin gets 98 marks. This amounts to 56% of the maximum marks. What are the maximum marks?

A. 75

B. 150

C. 175

D. 225

Answer:



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12. A number is first increased by 10% and then reduced by 10%. The number

A. does not change

B. decreases by 1%

C. increases by 1%

D. none of these

Answer:



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13. A period of 4 hours 30 min is what percent of a day?

A. $18\frac{3}{4}\%$

B. 20%

C. $16\frac{2}{3}\%$

D. 0.19

Answer:



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14. In an examination 65% of the total examinees passed. If the number of failures is 420, the total number of examinees is

A. 500

B. 100

C. 1200

D. 1625

Answer: C



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15. A number exceeds 20% of itself by 40. the number is

A. 50

B. 60

C. 80

D. 320

Answer:



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16. A number decreased by $27\frac{1}{2}\%$ gives 87.

The number is

A. 58

B. 110

C. 120

D. 135

Answer: C



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17. 0.05 is what percent of 20

A. 0.25

B. 0.025

C. 0.0025

D. 0.02

Answer: A



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18. One-third of 1206 is what percent of 134?

A. 100

B. 150

C. 200

D. 300

Answer: D



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19. $x\%$ of y is $y\%$ of ?

A. x

B. $100x$

C. $\frac{x}{100}$

D. $\frac{y}{100}$

Answer:



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20. What percent of $\frac{2}{7}$ is $\frac{1}{35}$?

A. 2.5 %

B. 10 %

C. 20 %

D. 25 %

Answer: B



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1. Express:

(i) 24% as a fraction.

(ii) 105% as a decimal

(iii) 4:5 as a percentage

(iv) 56% as a ratio



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2. If 34% of a number is 85, find the number.



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3. The value of a machine depreciates every year by 10%. If the present value of the machine is Rs 54000. What was its value last year?



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4. An alloy contains 30% copper, 42% nickel and rest zinc. Find the mass of zinc in 1 kg of alloy.



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5. In a class, 60% of the total number of students are boys and there are 14 girls. How many students are there in the class?



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6. Which is largest in $8\frac{1}{3}\%$, $\frac{4}{25}$ and 0.15 ?



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7. What percent of $\frac{2}{9}$ is $\frac{1}{45}$?



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8. A number decreased by 30% gives 84. the number is



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9. (?)% of 320 is 48?



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10. What percent of 45 is 54?



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11. A number exceeds 25% of itself by 60. the number is



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12. 5% of which number is 12?



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Test Paper 9 Fill In The Blanks

1. $7\frac{1}{2}\%$ of Rs 1200=_____



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2. 240mL is _____% of 3L.



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3. If $x\%$ of 35 is 42, then $x = \underline{\hspace{2cm}}$.

A. 120

B. 60

C. 100

D. 50

Answer: A



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4. $\frac{12}{5} = \underline{\hspace{2cm}}\%$



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5. Write T or F

$120 = (\underline{\quad})\%$ of 80.



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Test Paper 9 True And False

1. Write T or F

6% of 8 is 48.



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2. Write T or F

$$6:5=30\%$$



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3. Write T or F

$$\frac{3}{5} = 60\%$$



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4. Write T or F

6hours=25% of a day.

A. T

B. F

C. Can not say anything

D. none of these

Answer: A



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