



MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

PERCENTAGE

Example

1. Convert each of the following fractions into a percentage

$$(1) \frac{33}{100}$$

$$(2) \frac{3}{4}$$

$$(3) \frac{7}{25}$$

$$(4) \frac{11}{40}$$

$$(5) \frac{6}{7}$$



[Watch Video Solution](#)

2. Convert each of the following into a fractions

$$(1) 36\%$$

$$(2) 56\%$$

(3) 37.5%

(4) 140%



[Watch Video Solution](#)

3. Express each of the following as a rattoo

(1) 17%

(2) 72%

(3) 12.5%

(4) 225%



[Watch Video Solution](#)

4. Convert each of the following ratios into a percentage

(1) 14 : 25

(2) 5 : 6

(3) 111 : 125

(4) 8 : 5



[Watch Video Solution](#)

5. Convert each of the following into a decimal fraction:

(1) 36 %

(2) 5.4 %

(3) 0.25 % %

(4) 135 %



[Watch Video Solution](#)

6. Convert each of the following decimal into a percentage:

(1) 0.8

(2) 0.36

(3) 0.04

(4) 0.008



Watch Video Solution

7. find

(1) 8 % of 125

(2) 0.25 % of 16



Watch Video Solution

8. what per cent of 36 is 9?

A. 25%

B. 9%

C. 4%

D. 36%

Answer: A



Watch Video Solution

9. find a number whose 8% is 6

A. 48

B. 60

C. 124

D. 75

Answer: D



Watch Video Solution

10. find

(1) 9 % of ₹ 700

(2) $\frac{6.2}{3}$ % of 75 metres

(3) 7.5 % of 80 kg

(4) 8 % of 5 litres



Watch Video Solution

11. what per cent of 40 m is 16 m?

1 kg is 25 g?

3.5 litres is 700 ml?



[Watch Video Solution](#)

12. What percent is 18 hours of 3 days?



[Watch Video Solution](#)

13. an alloy contains 20% copper 40% zinc and the rest nickel find the grams the quantity of each of the contents in 1 kg of alloy.



Watch Video Solution

14. out of her total monthly income Mrs Saxena spend 30% on house rent and 60% of the rest on household expenses. if she saved 6300 per month, what is her total monthly income



15. A basket contains 350 eggs if 12% of the eggs are rotten how many eggs are good enough to be sold

A. 208

B. 308

C. 408

D. 608

Answer: B



Watch Video Solution

16. Mr Narayana saves 20% of his salary if he receive 14500 per month as his salary find his monthly expenditure

A. 12000

B. 13980

C. 11600

D. none of these

Answer: C



Watch Video Solution

17. in an examination 96% of the candidate passed and 50 failed. how many candidate appeared?

A. 1250

B. 1000

C. 1580

D. 1400

Answer: A



[Watch Video Solution](#)

18. if 15% of the workers in a factory are females and the number of male workers is 272 find the total number of workers in the factory



[Watch Video Solution](#)

19. A number is increased by 10% and then it is decreased by 10%. Find the net increase or

decrease percent.



Watch Video Solution

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

A. 20%

B. 15%

C. 10%

D. 125%

Answer: A



Watch Video Solution

21. As income is 25% more than that of B. how many per cent is Bs income less than that of A?



Watch Video Solution

22. The value of a machine depreciates every year by 5%. If the present value of the machine

be Rs 100000, what will be its value after 2 years?



[Watch Video Solution](#)

23. the population of a town increases 8% annually if its present population is 142560 what was it a year ago?



[Watch Video Solution](#)

24. The price of sugar goes up by 20%. By how much percent must a hours wife reduce her consumption so that the expenditure does not increase?



[Watch Video Solution](#)

25. Find the percent of pure gold is 22-carat gold, if 24 carat gold is hundred percent pure gold.



[Watch Video Solution](#)

Exercise 10 A

1. convert each of the following fractions into

a per centage : (1) $\frac{47}{100}$

(2) $\frac{9}{20}$

(3) $\frac{3}{8}$

(4) $\frac{8}{125}$

(5) $\frac{19}{500}$

(6) $\frac{4}{15}$

(7) $\frac{2}{3}$

(8) $1.3/5$



Watch Video Solution

2. convert each of the following into a fractions

(1) 32%

(2) $6\frac{1}{4}\%$

(3) 6.25%

(4) 22.75%



Watch Video Solution

3. Express each of the following as a ratio:

(1) 43 %

(2) 36 % :

(3) 7.5 %

(4) 125 %



Watch Video Solution

4. Convert each of the following ratios into a percentage:

(1) 37 : 100

(2) 16 : 25

(3) 3 : 5

(4) 5 : 4



Watch Video Solution

5. Convert each of the following into decimal

Form :

(1) 45%

(2) 127%

(3) 3.6%

(4) 0.23%



[Watch Video Solution](#)

6. Convert each of the following decimal into a percentage

(1) 0.6

(2) 0.42

(3) 0.07

(4) 0.005



[Watch Video Solution](#)

7. find

(1) 32% of 425

(2) $\frac{16.2}{3}$ % of 16

(3) 6.5 % of 400

(4) 136 % of 70

(5) 2.8 % of 35

(6) 0.6 % of 45



Watch Video Solution

8. find

(1) 25 % of 76

(2) 20 % of ₹ 132

(3) 7.5 % of 600 m

(4) $\frac{3.3}{1}$ % of 90 km

(5) 8.5 % of 5 kg

(6) 20 % of 12 liters



Watch Video Solution

9. Find the number whose 13 % is 65

A. 400

B. 300

C. 500

D. 200

Answer: C



Watch Video Solution

10. Find the number whose $6\frac{1}{4}\%$ is 2



Watch Video Solution

11. What amount is 10% more than ₹90?



Watch Video Solution

12. What amount is 20% less than ₹60?

A. ₹38

B. ₹28

C. ₹48

D. ₹58

Answer: C



Watch Video Solution

13. If 3% of x is 9, Find the value of x .



Watch Video Solution

14. If 12.5% of x is 6, Find the value of x .

A. $x = 52$

B. $x = 50$

C. $x = 48$

D. $x = 49$

Answer: C



Watch Video Solution

15. What per cent of 84 is 14?

A. $18\frac{2}{3}\%$

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

C. $17\frac{2}{3}\%$

D. $15\frac{2}{3}\%$

Answer: B



Watch Video Solution

16. What percentage is

1. ₹15 of ₹120
2. 36 minutes of 2 hours?
3. 8 hours of 2 days?
4. 160 meters of 4km?

5. 175 ml of 1 liter?

6. 25 paise of ₹ 4?



[Watch Video Solution](#)

Exercise 10 B

1. Rupesh secures 495 marks out of 750 in his annual examination find the percentage of marks obtained by him

A. 67 %

B. 68 %

C. 66 %

D. 69 %

Answer: C



Watch Video Solution

2. The monthly salary of a typist is ₹ 15625 if he gets an increase of 12% find his new salary



Watch Video Solution

3. The excise duty on a certain items has been reduced to ₹ 760 from ₹ 950 find the reduction per cent in the excise duty on that items



[Watch Video Solution](#)

4. 96% of the cost of a TV is ₹ 10464 what is its total cost ?



[Watch Video Solution](#)

5. 70% of the students in a school are boys and the number of girls is 504 find the number of boys in the school



[Watch Video Solution](#)

6. A ore contains 12% copper how many kilograms of the ore are required to get 69 kg of copper



[Watch Video Solution](#)

7. 36% of the maximum marks is required to pass a test. A student gets 123 marks and is declared fail by 39 marks. Find the maximum marks.

A. 450

B. 460

C. 470

D. 480

Answer: A



Watch Video Solution

8. A fruit-seller had some apples he sells 40% of them and still has 420 apples find the number of apples he had originally



[Watch Video Solution](#)

9. in an examination 72% of the total examinees passed if the number of failures is 392 find the total number of examinees

A. 1300

B. 1100

C. 1400

D. 1500

Answer: C



Watch Video Solution

10. after deducting a commission of 5% a moped costs ₹ 15200 what is its gross value ?



Watch Video Solution

11. Gunpowder contains 75% of nitre and 10% of sulphur and the rest of it is charcoal find the amount of charcoal in 8 kg of gunpowder



Watch Video Solution

12. chalk contains 3% of carbon 10% of calcium and 12% of oxigen find the amount in grams of each of these substances in 1 kg of chalk



Watch Video Solution

13. sonal went to school for 219 days in a full years if her attendance is 75% find the number of days on which the school was open



Watch Video Solution

14. 3% commission on the sale of the property amounts to ₹ 42660 what is the total value of property?



Watch Video Solution

15. in an election there were two candidates A and B the total number of voters in this constituency was 60000 and 80% of the total votes were polled if 60% of the polled votes were cast in favour of A how many votes were received by B?

A. 19100

B. 20000

C. 21000

D. 19200

Answer: D



[Watch Video Solution](#)

16. the price of a shirt is reduced by 12% in a discount sale if its present price is ₹ 1188 find its original price



[Watch Video Solution](#)

17. the price of sweater is increased by 8% if its increased price is ₹ 1566 find the original price



[Watch Video Solution](#)

18. after spending 80% of his income and giving 10% of the remainder in a charity a man has ₹ 46260 left white him find his income



Watch Video Solution

19. a number is increased by 20% and the increased number is decreased by 20% find the net increase or decrease per cent



Watch Video Solution

20. the salary of an offiser is increased by 20% by what percentage should the new salary be reduced to restore the original salary?



Watch Video Solution

21. a property dealer charges commission at the rate of 2% on the first ₹ 200000, 1% on the next ₹ 200000 and 0.5% on the remaining price find his commission on the propert that has been sold for ₹ 540000





[Watch Video Solution](#)

22. nikhil's income is 20% less than that of akhil. How much per cent is akhils income more of than that of Nikhils?



[Watch Video Solution](#)

23. Jhons income is 20% more than that of Mr thomas. How much per cent is the incomme of Mr thomes less than that of jhon?



[Watch Video Solution](#)

24. the value of a machine depreciates 10% every year if its present value is ₹387000 what was its value 1 year ago



[Watch Video Solution](#)

25. the value of a car decrease annually by 20% if the present value of car be ₹450000 what will be its value after 2 years?



[Watch Video Solution](#)

26. The population of a town increases by 10% annually. If the present population is 60000, what will be its population after 2 years?



Watch Video Solution

27. The population of a town increases by 10% annually. If the present population is 60000, what will be its population after 2 years?



Watch Video Solution

Exercise 10 C

1. $\frac{3}{4}$ as rate per cent is:

A. 7.5%

B. 75%

C. 0.75%

D. none of these

Answer: b



Watch Video Solution

2. The ratio 2 : 5 as rate per cent is

A. 4 %

B. 0.4 %

C. 40 %

D. 14 %

Answer: c



Watch Video Solution

3. 8. $\left(\frac{1}{3}\right)\%$ expressed as a fraction is

A. $\frac{25}{3}$

B. $\frac{3}{25}$

C. $\frac{1}{12}$

D. $\frac{1}{4}$

Answer: c



Watch Video Solution

4. If $x\%$ of $75=9$, then the value of x is

A. 16

B. 14

C. 12

D. 8

Answer: c



Watch Video Solution

5. What per cent of $\frac{2}{7}$ is $1/35$?

A. 25 %

B. 20 %

C. 15 %

D. 10 %

Answer: d



Watch Video Solution

6. What per cent of 1 day is 36 minutes?

A. 25 %

B. 2.5 %

C. 3.6 %

D. 0.25 %

Answer: b



Watch Video Solution

7. A number increased by 20% gives 42. the number is

A. 35

B. 28

C. 36

D. 30

Answer: A



Watch Video Solution

8. A number decreased by 8% gives 69. the number is

A. 80

B. 75

C. 85

D. none of these

Answer: B



Watch Video Solution

9. An ore contains 5% copper. How much ore is required to obtain 400g of copper?

A. 2kg

B. 4kg

C. 6kg

D. 8kg

Answer: *D*



Watch Video Solution

10. After deducting a commission of 10% a Tv costs ₹ 18000, What is its gross value?

A. ₹18800

B. ₹20000

C. ₹19800

D. none of these

Answer: B



Watch Video Solution

11. On increasing the salary of a man by 25%. It become ₹20000. what was his Original salary?

A. ₹15000

B. ₹16000

C. ₹18000

D. ₹25000

Answer: B



Watch Video Solution

12. In an examination 95% of the total examinees passed. If the number of failures is 28. how many examinees were there?

A. 600

B. 480

C. 560

D. 840

Answer: c



Watch Video Solution

13. A fruit-seller had some apples he sells 40% of them and still has 420 apples. How many apples had he in all ?

A. 588

B. 600

C. 700

D. 725

Answer: C



Watch Video Solution

14. The value of a machine depreciates 10% annually. If its present value is ₹ 25000, what will be its value after 1 year?

A. ₹27500

B. ₹22500

C. ₹25250

D. none of these

Answer: b



Watch Video Solution

15. 8% of a number is 6. What is the number?

A. 48

B. 96

C. 75

D. 60

Answer: c



Watch Video Solution

16. 60 % of 450?

A. 180

B. 210

C. 270

D. none of these

Answer: c



Watch Video Solution

17. On reducing the value of a chair by 6% it become ₹ 658. The original value of the chair is

A. ₹750

B. ₹720

C. ₹500

D. ₹700

Answer: d



Watch Video Solution

18. 70 % of students in a school are boys, if the number of girls is 240, how many boys are there in the school?

A. 420

B. 560

C. 630

D. 480

Answer: b



Watch Video Solution

19. If 11% of a number exceeds 7% of the number by 18, the number is

A. 72

B. 360

C. 450

D. 720

Answer: C



Watch Video Solution

20. If 35% of a number added to 39 is the number itself, the number is

A. 60

B. 65

C. 75

D. 105

Answer: A



Watch Video Solution

21. In an examination it is required to get 36% to pass. A student gets 145 marks and fails by 35 marks. The maximum marks are

A. 400

B. 450

C. 500

D. 600

Answer: C



Watch Video Solution

22. A number decreased by 40 % gives 135. the number is

A. 175

B. 200

C. 250

D. 225

Answer: D



Watch Video Solution

1. Convert:

1. $\frac{4}{5}$ into a percentage

2. $\frac{7}{4}$ into a percentage

3. 45 % into a fraction

4. 105% into a fraction

5. 15 % as a ratio

6. 12:25 into a percentage



[Watch Video Solution](#)

2. What percent of 1kg is 125 g?

80 m is 24 m?



[Watch Video Solution](#)

3. Find

$\frac{16.2}{3}$ % of 30

15% of ₹140.



[Watch Video Solution](#)

4. Find the number (i) whose $6\frac{1}{4}\%$ is 5

(ii) which is 0.8% of 45



[Watch Video Solution](#)

5. A number is increased by 10% and the increased number is decreased by 10%. Show that the net decrease is 1%



[Watch Video Solution](#)

6. The value of a machine depreciates at the rate of 10% per annum. If its present value is ₹ 10000. What will be its value after 2 years?



[Watch Video Solution](#)

7. The population of a town increases at 5% per annum. Its present population is 16000. What will be its population after 2 years?



[Watch Video Solution](#)

8. The price of a teaset is increased by 5%. If the increased price is ₹ 441, what is its original price?



Watch Video Solution

9. $6\frac{1}{4}\%$ expressed as a fraction is

A. $\frac{1}{8}$

B. $\frac{1}{16}$

C. $\frac{4}{25}$

D. $\frac{1}{25}$

Answer: B



Watch Video Solution

10. If $x\%$ of $75=12$, then the value of x is

- A. 8
- B. 10
- C. 12
- D. 16

Answer: D



Watch Video Solution

11. A number is increased by 20% given 30. the number is

A. 150

B. 6

C. 25

D. 60

Answer: C



12. 5% of a number is 9. the number is

A. 120

B. 140

C. 160

D. 180

Answer: D



Watch Video Solution

13. If 35% of a number added to 39 is the number itself, the number is

A. 60

B. 65

C. 75

D. 70

Answer: *A*



Watch Video Solution

14. In an examination it is required to get 36% to pass. A student gets 160 marks and fails by 20 marks. Maximum marks are

A. 400

B. 450

C. 500

D. 600

Answer: C



Watch Video Solution

15. Fill in the blanks

(1) $3:4=(\dots)\%$

(2) $0.75=(\dots)\%$

(3) $6\%=\dots$ (express in decimals)

(4) If x decreased by 40% gives 135 than $x =\dots\dots\dots$

(5) $(11\% \text{ of } x)-(7\% \text{ of } x)=18 = x=\dots\dots\dots$



Watch Video Solution

16. Write t for ture and false for each of the following:

(1) $\frac{3}{4}$ as rate per cent is 75 %

(2) $\frac{12.1}{2}$ % expersesed as afraction is $\frac{1}{8}$

(3) $2:5 = 25\%$

(4) '80% of 450 =360.

(5) 20% of 1liter =200ml



Watch Video Solution