MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

PERCENTAGE

Example

1. Convert each of the following fractions into apercentage

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

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

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

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

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

▶ **Watch Video Solution**

2. Convert each of the following into a fractions

(1) 36%

(2) 56%

(3) 37.5%

(4) 140%

3. Express each of the following as a rattio

(1) 17%

(2) 72%

(3) 12.5%

(4) 225%

4. Convert each of the following ratios into a percentage

(1) $14:25$

(2) $5:6$

(3) $111:125$

(4) $8:5$

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

(1) 36%

(2) 5.4%

(3) 0.25% $\%$

(4) 135%

6. Convert each of the following decimal into a

percentage:

(1) 0.8

(2) 0.36

(3) 0.04

(4) 0.008

7. find

(1) $8\% \, of \, 125$

(2) $0.25\% \, of \, 16$

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) $\dfrac{6.2}{3}\%$ 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 quanitity of each of the contents in 1 kg of alloy.

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 mouth, 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

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

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

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

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

decrease percent.

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

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

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 it 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?

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

1. convert each of the following fractions into a per centage : (1) $\dfrac{47}{100}$

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

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

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

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

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

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

(8) $1.3/5$

2. convert each of the following into a fractions

(1)32%

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

(3)6.25%

(4) 22.75%

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) $5:4$

5. Convert each of the following into decimal

Form :

(1) 45%

(2) 127%

(3) 3.6%

(4) 0.23%

6. Convert each of the following decimal into a percentage

(1) 0.6

(2) 0.42

(3) 0.07

(4) 0.005

7. find

(1) 32% of 425

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

(3) 6.5 % of 400

(4) 136 % of 70

(5) 2.8 % of 35

(6) 0.6 % of 45

8. find

(1) 25% of 76

(2) 20% of ₹ 132

(3) 7.5% of 600 m

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

(5) 8.5% of 5 kg

(6) 20% of 12 liters

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 $6\dfrac{1}{4}\%$ is 2

▶ **Watch Video Solution**

11. What is amount is 10% more than ₹90?

12. What amount is 20% less than ₹60?

A. ₹38

B. ₹28

C. ₹48

D. ₹58

Answer: C

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

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. $18\dfrac{2}{3}\%$

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

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

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

Answer: B

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?

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 hi

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 students 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-sellerhad some apple he sells 40% of them and still has 420 appels find the nummber of appels he had originally

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 cadidates 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 reccived by B?

A. 19100

B. 20000

C. 21000

D. 19200

Answer: D

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

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

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?

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

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

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?

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**

1. $\dfrac{3}{4}$ 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. $\left(\dfrac{1}{3}\right)\%$ expressed as a fraction is

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

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

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

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

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 $\dfrac{2}{7}$ 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

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. Aftter 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 numbe of failures is 28. how many examinees were there?

A. 600

B. 480

C. 560

D. 840

Answer: c

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

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

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

21. In an examination it is requirted 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. $\dfrac{4}{5}$ into apercentage

2. $\dfrac{7}{4}$ 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?

3. Find

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

`15% of ₹140.

4. Find the number (i) whose $6\dfrac{1}{4}$ % 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 amachine depricites 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 ne its population after 2 years?

▶ **Watch Video Solution**

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

9. $6\dfrac{1}{4}\%$ experssed as a fraction is

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

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

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

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

Answer: B

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

A. 8

B. 10

C. 12

D. 16

Answer: D

11. A number is increaesd bt 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

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 its is required tto 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=(......)%

(2) 0.75=(.....)%

(3) 6%=.......(express in decimals)

(4) If x decreased by 40% gives 135 than x =..........

(5) (11% of x)-(7% of x)=18 = x=......

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

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

(2) $\dfrac{12.1}{2}\,\%$ experesseed as afraction is $\dfrac{1}{8}$

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

(4) `80% of 450 =360.

(5) 20% of 1liter =200ml

▶ **Watch Video Solution**