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Math : Percentage

Exercise:

30 marks out of 100 = 30 %

60 marks out of 200 =

24 marks out of 50 =

If 20 marks out of 25 = 80%

50 marks out of 150 =

Q1. If A , B and C have 500 rs , 300 rs and 200 rs

- i) A is what percent of B?
- ii) B is what percent of A?
- iii) C is what percent of A?
- iv) what percent is A more than B?
- v) B is what percent less than A?
- vi) B is what percent more than C?
- vii) C is what percent less than B?

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Q2. 20 is what percent of 100?

Q3 23 is what percent of 50?

Q4 What percent of 7 is 84?

Q5 What percent of 6.5 liter is 130 ml ?

Q.6

Express each of the following as a fraction:

(i) 56%

(ii) 4%

(iii) 0.6%

(iv) 0.08%

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Q.7

Express each of the following as a decimal:

(R.R.B., 2006)

(i) 6%

(ii) 28%

(iii) 0.2%

(iv) 0.04%

(v) $\frac{1}{2}\%$

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Q.8

Express each of the following as rate percent:

(i) $\frac{23}{36}$

(ii) 0.004

(iii) $6\frac{3}{4}$

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$$100\% = 1$$

$$50\% = \frac{1}{2}$$

$$25\% = \frac{1}{4}$$

$$12.5\% = \frac{1}{8}$$

$$6.25\% = \frac{1}{16}$$

$$10\% = \frac{1}{10}$$

$$20\% = \frac{1}{5}$$

$$5\% = \frac{1}{20}$$

$$2\frac{1}{2}\% = \frac{1}{40}$$

$$30\% = \frac{3}{10}$$

$$15\% = \frac{3}{20}$$

$$7\frac{1}{2}\% = \frac{3}{40}$$

$$20\% = \frac{1}{5}$$

$$40\% = \frac{2}{5}$$

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

$$80\% = \frac{4}{5}$$

$$6\frac{1}{4}\% = \frac{1}{16}$$

$$33\frac{1}{3}\% = \frac{1}{3}$$

$$66\frac{2}{3}\% = \frac{2}{3}$$

$$90\% = \frac{9}{10}$$

$$45\% = \frac{9}{20}$$

$$180\% = \frac{9}{5}$$

$$75\% = \frac{3}{4}$$

$$37\frac{1}{2}\% = \frac{3}{8}$$

$$22\frac{1}{2}\% = \frac{9}{40}$$

$$8\frac{1}{3}\% = \frac{1}{12}$$

Q.9

$$63\% \text{ of } 3\frac{4}{7} =$$

Q.10

Find the missing figures:

(i) ?% of 25 = 2.125

(ii) 9% of? = 63

(iii) 0.25% of? = 0.04

Q.11

2% of 2 =?

(a) 0.04

(b) 0.4

(c) 0.02

(d) 0.004

Q.12

30% of 80 = 24

?

Q.13

Square root of 72% of 80 =

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Q.14 The population of a village has increased from 4000 to 6000 . Find the percentage increase
In the population?

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Q.15 The price of sugar decrease from 80 rs./kg to 60 rs./kg . Find the percentage of decrease

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Q.16 A person saves 27% of his monthly income . If his monthly expenditure is 5840 rs. , then find his monthly income .

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Q.17 If 75% of a number is 600 then what will be 60% of the number ?

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Q.18 45% of ? + 30% of 90

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Q.19 What percent of $\frac{2}{7}$ is $\frac{1}{35}$?

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Q.20 10 is what percent of 40 ?

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Q.21 If a person's income is increased by 10% and 20% respectively , then by what percentage will his income increase

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Q.22

If person's income is increased by 10% and 20% respectively then by what percentage will his income decrease ?

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Q.23

A person's income first increased by 50% , then his income decreases by 40% . Then , how much percentage has his income decrease / increased as compared to before ?

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Q.24

If the price of book first decreased by 25% and then increased by 20% , then the not change in the price

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Q.25

The price of a radio was first increased by 20% what will be the increase or decrease % in the price of the radio ?

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Q.26

When Ram's income is 20% more than Hari's income then what percent is Hari's income less than Ram's income ?

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Q.27

A's salary is 20% less than B's salary B's salary is what percent more than A's salary ?

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Q.28 A salary is 20% more money than B and B has 10% more money than C . Then tell -

i) By what percentage does A have more money than C ?

ii) If C has 400 rs. , how much money does A have ?

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Q.29 Pramila scored 15% less marks than Jyoti and Jyoti scored 20% less marks than Ramila ,

Find - i) By percent are pramila's less marks less than Ramila's marks ?

ii) If Ramila gets 300 marks , what will be pramila's marks ?

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Q.30 If the price of vegetable ghee increased by 25% by what percent should Anita reduce its consumption so that the expenditure remains unchanged ?

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Q.31 If the price of a edible oil increase by 25% , by how much percent should a housewife reduce the use of oil so that her expenditure on oil increase by 15% ?

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Q.32 When the price of oranges falls from 40 rs. / kg to 30 rs. / kg by how much percent should a person increase his consumption so that the expenditure remains unchanged ?

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Q.33

When the price of sugar falls by 20% , I got the opportunity to buy 5 kg of sugar extra for 600 rs .
Accordingly , how much was then price of sugar per kg before the price of reduction and new price = ?

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Q.34

If the price of tea increases by 10% , then a customer buys four kg less tea for 880 rs. Find the increased price and initial price of tea ?

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THANK YOU

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