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### Mathematics

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(Chapter - 8) (Comparing Quantities)  
(Class - VII)

#### Question 7:

- (i) Chalk contains Calcium, Carbon and Oxygen in the ratio 10:3:12. Find the percentage of Carbon in chalk.  
(ii) If in a stick of chalk, Carbon is 3 g, what is the weight of the chalk stick?

#### Answer 7:

- (i) Given ratio = 10 : 3 : 12  
Total part = 10 + 3 + 12 = 25  
Part of Carbon =  $\frac{3}{25}$   
Percentage of Carbon part in chalk =  $\frac{3}{25} \times 100 = 12\%$
- (ii) Quantity of Carbon in chalk stick = 3 g  
Let the weight of chalk be  $x$  g.  
Then, 12% of  $x = 3$   
 $\Rightarrow \frac{12}{100} \times x = 3 \quad \Rightarrow \quad x = \frac{3 \times 100}{12} = 25$  g  
Hence, the weight of chalk stick is 25 g.

#### Question 8:

Amina buys a book for ₹275 and sells it at a loss of 15%. How much does she sell it for?

#### Answer 8:

The cost of a book = ₹275  
Loss percent = 15%  
Loss = Loss% of C.P. = 15% of ₹275 =  $\frac{15}{100} \times 275 = ₹41.25$   
Therefore, S.P. = C.P. - Loss = ₹275 - ₹41.25 = ₹233.75  
Hence, Amina sells a book for ₹233.75.

#### Question 9:

Find the amount to be paid at the end of 3 years in each case:

- (a) Principal = ₹1,200 at 12% p.a.  
(b) Principal = ₹7,500 at 5% p.a.

#### Answer 9:

(a) Here, Principal (P) = ₹1,200, Rate (R) = 12% p.a., Time (T) = 3 years

$$\text{Simple Interest} = \frac{P \times R \times T}{100} = \frac{1200 \times 12 \times 3}{100} = ₹432$$

Now, Amount = Principal + Simple Interest = ₹1200 + ₹432 = ₹1,632

(b) Here, Principal (P) = ₹7,500, Rate (R) = 5% p.a., Time (T) = 3 years

$$\text{Simple Interest} = \frac{P \times R \times T}{100} = \frac{7500 \times 5 \times 3}{100} = ₹1,125$$

Now, Amount = Principal + Simple Interest = ₹7,500 + ₹1,125 = ₹8,625

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OQ + OR > QR

(iii) Yes, as  $\triangle ORP$  is a triangle with sides OR, OP, and PR.

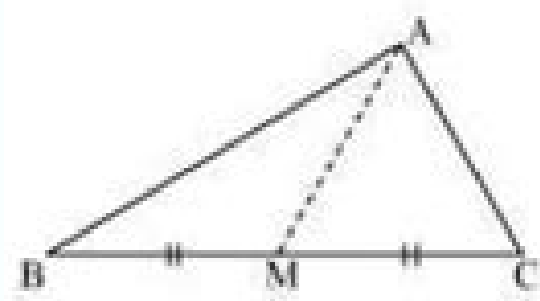
OR + OP > PR

Question 3:

AM is a median of a triangle ABC.

Is  $AB + BC + CA > 2AM$ ?

(Consider the sides of triangles  $\triangle ABM$  and  $\triangle AMC$ .)



Answer:

In a triangle, the sum of the lengths of either two sides is always greater than the third side.

In  $\triangle ABM$ ,

$AB + BM > AM$  (i)

Similarly, in  $\triangle ACM$ ,

$AC + CM > AM$  (ii)

Adding equation (i) and (ii),

$AB + BM + MC + AC > AM + AM$

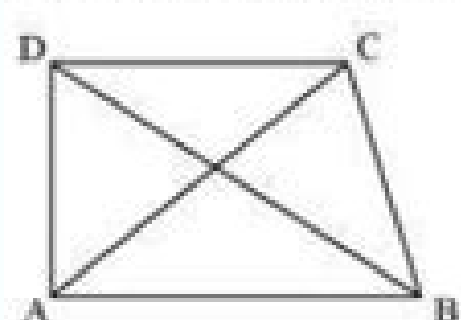
$AB + BC + AC > 2AM$

Yes, the given expression is true.

Question 4:

ABCD is quadrilateral.

Is  $AB + BC + CD + DA > AC + BD$ ?



Answer:

In a triangle, the sum of the lengths of either two sides is always greater than the third side.







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