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Maths

I Use the multiplication method to find the factors of the following

a) 15 b) 24 c) 30 d) 44

II Use the division method to find the factors of the following

a) 14 b) 28 c) 64 d) 90

III Write True or False for each of the following

a) 2 is a factor of 645 b) 3 is a factor of 423

c) 11 is a factor of 2089 d) 11 is a factor of 111

IV Explain the following statements with suitable examples.

a) If a number is divisible by 9, it will also be divisible by 3.

V Write True or False against each statements.

a) The number 2 is the only even prime number.

VI Find the prime factorisation of the following numbers

a) 24 b) 210 c) 80 d) 300

VII Find the HCF of the following by listing the common factors.

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a) 12, 15 b) 20, 30 c) 32, 40 d) 45, 63

III. Find the HCF of the following using the prime factorization method.

a) 15, 27 b) 15, 30 c) 32, 40

d) 80, 44 e) 36, 54 f) 14, 35

IV. Fill in the blanks

i) The smallest multiple of a number is the _____.

V. Find the LCM of the following by listing the multiples.

a) 6 and 10 b) 9 and 15 c) 16 and 24 d) 30 and 45

VI. Find the LCM of the following using the prime factorization method.

a) 12, 15 b) 14, 28 c) 13, 39 d) 42, 56

e) 50, 65 f) 12, 36 h) 24, 32

II. Express the following improper fractions.

a) $\frac{9}{3}$ b) $\frac{27}{4}$ c) $\frac{43}{9}$ d) $\frac{66}{8}$

II. Express the following mixed fraction numbers as improper fractions.

a) $3\frac{1}{3}$ b) $2\frac{2}{9}$ c) $5\frac{2}{4}$

X Arrange the following fractions in decending order;

a) $\frac{1}{5}, \frac{2}{3}, \frac{5}{6}$ b) $\frac{5}{9}, \frac{8}{18}, \frac{5}{12}$

I Reduce the following fractions to their lowest terms by finding the HCF.

a) $\frac{12}{21}$ b) $\frac{10}{35}$ c) $\frac{14}{36}$ d) [illegible] e) $\frac{20}{25}$ f) $\frac{21}{35}$

II Reduce the following to the lowest terms

a) $\frac{4}{8}$ b) $\frac{7}{28}$ c) $\frac{64}{96}$ d) $\frac{54}{90}$ e) $\frac{42}{98}$

III Solve the following, and reduce the answers to the lowest term

a) $\frac{2}{3} + \frac{1}{6}$ b) $\frac{1}{2} + \frac{5}{8}$ c) $\frac{7}{8} + \frac{1}{4}$ d) $\frac{7}{10} - \frac{3}{8}$

e) $\frac{1}{4} - \frac{1}{12}$ f) $\frac{2}{3} - \frac{7}{16}$

IV Solve the following word problems

a) Ninay walked $\frac{5}{2}$ km to her school. Then she [illegible] walked $\frac{3}{4}$ km to the stadium. How much did he walk altogether?

b) Mrs Girdhar bought 3 kg of tomatoes. She used $\frac{11}{4}$ kg to make soup. How much is left?

c) Teena has been told to drink $\frac{5}{4}$ L of milk every day. But she drank $\frac{4}{5}$ L out of the

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IV Find an equivalent fraction of the following by multiplication.

a) $\frac{3}{7}$ b) $\frac{2}{5}$ ~~c) 4~~ c) $\frac{4}{11}$ d) $\frac{3}{8}$

V Find an equivalent fraction of the following by division.

a) $\frac{48}{64}$ b) $\frac{50}{150}$ c) $\frac{14}{63}$

VI Write the first ~~four~~ four equivalent of the following.

a) $\frac{2}{9}$ b) $\frac{5}{8}$ c) $\frac{3}{10}$

VII Check weather the following pairs of fractions are equivalent or not

a) $\frac{5}{6}$ and $\frac{15}{18}$ b) $\frac{7}{8}$ and $\frac{12}{16}$

VIII Solve the following

a) Reena has some stamps. Preeti has $\frac{1}{5}$ of the number of stamps that Reena has. Whereas Gopi has $\frac{2}{7}$ of the total number of stamps. Isha has more stamps. Preeti or Gopi?

IX Arrange the following fractions in ascending order.

a) $\frac{11}{12}, \frac{7}{12}, \frac{9}{12}$ b) $\frac{9}{10}, \frac{3}{5}, \frac{7}{15}$

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total quantity of milk. How much milk is still left to be drunk?

V Solve the following

a) $9 - \frac{3}{5}$ b) $\frac{1}{2} - \frac{1}{3}$ c) $\frac{3}{5} + \frac{6}{11} + \frac{7}{12}$

d) $\frac{5}{8} + \frac{3}{4} + \frac{2}{5}$ e) $\frac{3}{4} - \frac{7}{15}$ f) $\frac{9}{6} - \frac{3}{4}$

g) $\frac{3}{4} - \frac{7}{12}$

VI Convert the following fractions into decimals

a) $\frac{2}{10}$ b) $\frac{19}{1000}$ c) $\frac{305}{1000}$ d) $179\frac{9}{1000}$ e) $13\frac{1}{100}$

f) $2\frac{52}{1000}$

VII Convert the following decimals into fractions

a) 0.89 b) 3.85 c) 7.002 d) 3.413

e) 0.008 f) 6.08

VIII Expand the following numbers in all the three ways.

a) 138 b) 14.359 c) 148.32

d) 572.617 e) 346.58 f) 0.72

IX Write the standard form of each of the following

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a) $4 + \frac{9}{10}$ b) $6 + \frac{3}{10} + \frac{8}{100}$ c) $3 + 0.7 + 0.04$

d) $(5 \times 100) + (9 \times 10) + 3 \times 1) + (3 \times \frac{1}{10}) + (6 \times \frac{1}{100})$

e) 3 hundreds + 5 ones + 8 tenths + 7 hundredths

X Solve the following decimals

a) 3.4cm + 3.8cm + 1.5 cm b) 89.65kg + 4.25kg + 12.32kg

c) 3.8236 + 0.457L + 5.645L d) 2.24km + 7.32km + 0.56km

I Solve the following word problems

a) If sharpener costs ₹5.65 and a pencil costs ₹2.35, how much do I have to spend for both?

b) Sumit drank 0.650L of milk in the morning. 0.8375L in the evening, and 0.245 L at night. How much milk did he drink on that ~~day~~ particular day?

c) By how much is 12.45 m less than 15.74m?

II Arrange the following in ascending ~~order~~ order.

a) 11.1, 11.21, 11.001 b. 0.42, 0.5, 0.382

III Arrange the following in decending order

a) 11.42, 10.4, 11.526 b) 9.82, 9.9, 9.795

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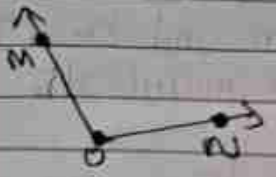
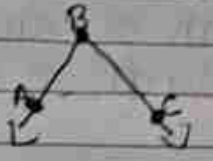
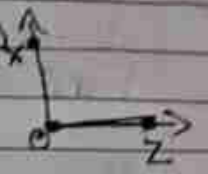
IV Draw the following

a) Point M b) $\overline{XY}$ c) $\overrightarrow{MN}$ d) $\overleftrightarrow{AB}$ e) Plane q

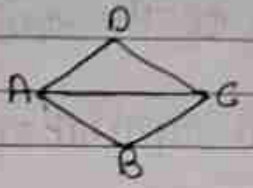
V Name the vertices and the arms of the following angles.

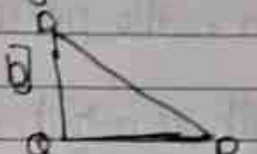
a) 

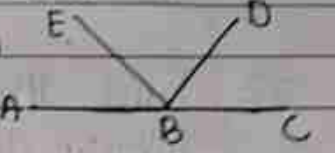
b) 

c) 

VI Name all the angles in the following figures.

a) 

b) 

c) 

VII Draw the circles of the given radii with the help of a compass.

a) 8cm b) 3cm c) 4.3 cm f) 7cm

VIII Use the formula to find the perimeters of the rectangles whose lengths and breaths are given below.

a) $l = 7m, b = 4m$ c) $l = 15m, b = 13m$

8) $l = 80cm, b = 55cm$

IX Use the formula to find the perimeters of the squares whose sides are given below.

a) 19cm b) 5cm c) 7cm d) 16m e)

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X Find the ~~area~~ perimeters of the triangles whose sides are given below.

a) 5cm, 4cm, and 4cm b) 5.5cm, 7.6cm and 7cm

I Sania wants to put lace around a rectangular tablecloth of length 16 cm and breadth 9 cm. Find the length of the lace required.

II There square tiles of sides 15 cm are placed side by side to form a rectangle. Find breadth 9cm, the perimeter of the rectangle formed

III Find the length of a side of an equilateral triangle whose perimeter is 72cm.

IV Find the area of the ~~rectangle~~ squares whose sides are are given below.

a) 10m b) 3cm c) 5cm

V Find the area of the ~~square~~ rectangles whose lengths and breadths are as follows.

a) $l = 8cm$, $b = 6cm$ b) $l = 6m$, $b = 4m$. c) $l = 4km$, $b = 3km$

V Solve the following.

a) Find the area of a square of side 13cm

b) Jamal bought a bed sheet ~~measuring~~ measuring 3 m by 2m. What is the area of the ~~bed~~ bed sheet

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VIII Meena bought a square - shaped photo frame of side 9 cm. Find the area of the photo frame.

IX A room is 4 m long, 3 m broad, and 9 m high. Find its volume.

X What is the volume of a cube of side 10 cm?

I Sony has a gift box of length 28 cm, breadth 16 cm, and height 12 cm. What is its volume?

II Find the volume of the cuboids whose dimensions are as follows.

a) $l = 12$ cm, $b = 10$ cm and 2 cm b) $l = 15$ m $b = 3$ m, $h = 1$ m

c) $l = 7$ m, $b = 8$ m and $h = 9$ m

III Find the volume of a cube whose edges are the following.

a) 8 m b) 5 cm c) 11 m

IV The following data shows the wickets taken by Aman in the 30 cricket matches he has played so far.

3	5	4	3	5	5	4	1	5	3	6	1	6	5	5
2	2	3	2	6	2	5	5	1	6	2	5	3	4	4

V Given below are the approximate runs scored by five batsmen in county cricket. Represent the data using a bar graph.

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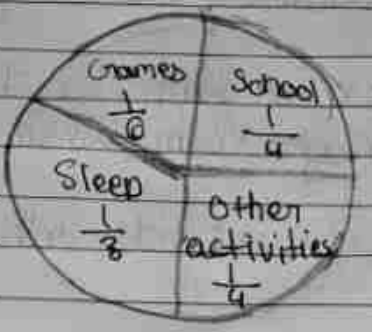
Batsman	A	B	C	D	E
Runs	10,000	15,000	7000	8000	11,000

VI. Here is a circle graph that shows that shows Rohan's activities during a day or 24 hours. How many hours does Rohan spend on each activity?



VII. The following table shows the favourite games of 40 students in a class.

Games	Cricket	Football	Hockey	Basketball
No. of students	20	10	5	5

VIII. The circle graph shows how Mayank spent his 12-hour train journey Read the graph and answer the questions

a) On which activity did he spend the maximum time

b) Did he spend more time talking or Reading

c) How many hours did he sleep

d) If he spent 1/4 of the journey reading, how many hours did he read?