Cosmo School

Class – 5

Subject – Mathematics

Worksheet

Chapter – 1 & 2

Multiplication & Division

- *Short Questions:*

  1. $150 \div 50 = ?$
  2. $435 \times 100 = ?$
  3. $1010 \times 500 = ?$
  4. $\frac{20}{(5 \times 2)} = ?$
  5. $110 \times 110 = ?$
  6. $92600 \div 100 = ?$
  7. $5391 \div 100$, what is the remainder here?
  8. $\frac{9876}{100} = ?$
  9. $43\ \square\ 1 \times 100 = 432100$, what will the number be in the $\square$?
  10. Write the formula of divisor in case of division without remainder.
  11. Write the formula of dividend in case of division with remainder.
  12. The product of two numbers is 225. If one number is 25, what is the other number?
  13. What will be the quotient if 63500 are divided by 100?
  14. Price of 1 pen is 40 tk. How much do 15 pens cost?
  15. If multiplier is 25 and the product is 0, then what is the multiplicand?
  16. A person's daily income is 325 tk. How much does he earn in a year?
  17. 100 passengers can travel in a bus. How many buses are needed for 4500 passengers?
  18. The price of 7 kg rice is 5600 tk. What is the price of one kg rice?
  19. The price of 8 eggs is 72 tk. What is the price of an egg?
  20. If 12 bananas cost 240 tk , then how much tk does 1 banana cost?

- *Creative question:*

1. Mr. Shamim's monthly income is 25000tk. Every month he spends 8500 tk on house rent and 11500 tk on household expense. The remaining money he deposits in a bank.

  a) What is the yearly salary of Mr. Shamim?
  b) How much money does he spend on 2 months?
  c) How much money does he spend on household expenses in 6 months?
  d) How much money does he deposit each month?

2. A worker earns tk. 1400 in a week.

  a) How much does he earn in a day?
  b) Hoe much does he earn in a month? (30 days)

c) How much does he earn in a year? (365 days)
d) Hoe many days will he take to earn tk 3000?

3. A person's monthly income is tk 8500. He spends Tk. 3100 for house rent and tk 4500 for other expenditure per month. The remaining money he deposits in a bank.

a) How much money does he spend for house rent and other expenditure in total?
b) What amount of money does he deposit in the bank?
c) What amount of money does he deposit in a year in the bank?

4. The divisor is 10 times more than the remained. The quotient is 30 and the remainder is 5?

a) What is the divisor?
b) What is the dividend?
c) How much more is the dividend from the divisor?
d) What is the summation of the quotient and the remainder?

Chapter 3

Problems Involving Four Rules

Short questions:

1. $12 \div 6 - 6 \div 2 + 15 \div 5 = ?$
2. If 4 eggs cost 32 tk, then how much will 7 eggs cost?
3. What is unitary method?
4. If 6 bananas cost 18 tk, then how much will 20 bananas cost?
5. 1 dozen mangoes cost 600 tk, then what does 1 mango cost?
6. 8 pencils cost 24 tk. How much money will be needed for 16 pencils?
7. There are 60 lychees in 3 baskets. How many lychees will be in 10 baskets?
8. 9 books costs 216 tk, how much will 12 books cost?
9. A labour earns 2100 tk in a week. How much does he earn in 5 days?
10. If 100 lychees cost 300 tk then how much will 25 lychees cost?
11. If 5 people can do a work in 20 days. How many days will it need for 2 people to do the same work?
12. 9 people can do a work in 16 days. How many days will 12 people take to do the same work?
13. There is food for 30 days in a hostel of 150 students. How many days will the same food last for 60 people?
14. 12 people need 24 kg rice for 1 week. How many Kg of rice will be needed for 24 people in 1 week?
15. 1 metre cloth cost 140 tk, how many meters of cloths will cost 840 tk?

Creative Questions:

1. The sum of ages of Miraj and Mahmud is 88 years. The age of Miraj is 3 times of Mahmud age.

  a) How many times is the sum of the ages of Miraj and Mahmud compare to the age of Mahmud?
  b) What is the age of Mahmud?
  c) What will be the age of Miraj after 5 years?

2. In a hostel 400 students have food for 30 days.

  a) What will be the total number of students if 200 students joined the hostel?
  b) If 200 students arrive, how long will the food last?
  c) If 40 students leave from the hotel, how long will the food last?

3. The price for 15 pencils and 12 pens is 276 tk. The price of 2 pencils is 16 tk?

  a) What is the price of 15 pencils?
  b) What is the price of 12 pens?
  c) How many Taka will be needed to buy 10 pencils?

4. The summation of the present age of the son and the father is 60 years. The father's age is 3 times the son's age.

  a) What is the present age of the son?
  b) What is the difference between the current age of the father and the son?
  c) What will be the age of the father and the son after 15 years?

Mathematical Symbols

Short question:

1. Choose an appropriate symbol among $<$, $=$ and $>$ for the following blank box:
   $\{(13 + 5) \div 3\} - 4 \,\square\, 2 + \{(9 - 6) \times 4 - 12\}$

2. Choose an appropriate symbol among $+$, $-$, $\times$, $\div$ for the following blank box:
   $12 \,\square\, 4 \,\square\, 2 = 1$

3. Express the following sentence in mathematical sentence:
   Multiplying 3 by 4 equals 12.

4. Subtracting x from 42 equals 35, express it in mathematical sentence.

5. Find the value of y, when $y \div 9 = 3$.

6. Divide 120 by 40 in equal to 3, express it in mathematical sentence.

7. $3 \times x + 2 = 14$, what is the value of x.

8. Write the smallest number using the numbers 7 , 2 , 0 , 1 , 3 , 5 only once.

9. How many operational symbols are there? What are they?

10. If a number is divided by 20, the result is 20. If the unknown number is z. Write the mathematical sentence.

11. If 12 is subtracted from an unknown number f, the result is 5. Write the mathematical sentence.

12. Which value of the letter symbol will make the open sentence true? $(x \div 4) + 2 = 14$.

13. Which one is not equal sign?

14. How many numerical symbols are there?

15. $(7 + x) \times 3 = 30$, x = what?

16. $(15 \div 3) - f = 5$, f = what?

17. $2 \times x = 22$, x = what?

18. $(m - 4) \div 6 = 6$, m = what?

19. $7 \times (8 + y) = 63$, y = what?

20. $x - 4 = 18$, x = what?

Chapter – 5

Multiples and Factors

Shot Question:

1. Write the common factor of 4 and 6.
2. What is the GCF of 4 and 7?
3. Find the LCM of 8 and 12.
4. Write 2 multiples of 4.
5. Write 24 as a product of its prime factors.
6. Write the factors of 15.
7. What is the GCF of 4 and 9?
8. What does LCM stand for?
9. Why is 1 not a prime number?
10. What is the GCF of 2 , 3 , 5 and 7?
11. How many prime factors are there of the number 15?
12. How many prime factors are there of the number 45?
13. Write 5 multiples of 18.
14. What does GCF stand for?
15. Write the first 4 multiples of 7?
16. Write the factors of 12.
17. How many common factors are there in the number of 12 and 15?
18. By which largest number 12 , 18 , 24 can be divided leaving no remainder?
19. What are the factors of 10?
20. Express 48 as the product of prime numbers?

Creative Question:

1. The teacher wants to divide 24 bananas, 42 biscuits and 54 chocolates equally among the students.

   a) Find the maximum number of students to whom the teacher can distribute those items equally?
   b) How many chocolates will a student get more than banana?

2. There are 3 bells. One of them rings every 10 mins, other rings every 12 mins and rest rings every 15 mins. They ring together for the first time.

   a) In what minimum minutes will they ring together again after that?
   b) *If they ring together at 9:00 am, what time they ring together next time?*

3. Farhad brought some saplings for his garden. If he plants 10, 12 and 15 saplings in every row respectively, then –

   a) What minimum number of saplings he can plant without remainder?
   b) If the number of saplings is 68, how many will be remained?
   c) If leaving the remainder 2 in each case. What will be the total number of saplings?

4. 60 kg rice, 40 kg flour, and 32 kg dal are brought for distributing among some flood affected families.

   a. What is the largest number of families among whom rice and flour can be divided equally?

b. What is the largest number of families among whom rice, dal and flour can be divided equally?

c. If the quantity of dal is having 12 kg less, then what is the largest number of families among whom rice, dal and flour can be divided equally?

5. **100 mangoes and 180 lychees are divided among some students.**

a. What is the largest number of students among whom mangoes and lychees are divided without any reminder?

b. How many mangoes will each of them get?

c. How many lychees will each of them get?

6. **Two buses of 2 companies depart from a bus station accordingly after 15 minutes and 20 minutes.**

a. Departing buses of 2 companies after what minimum time will the buses depart together again?

b. If 2 buses depart from 7:00 in the morning, after when again depart together again?

c. If the 2nd bus departs after every 25 minutes, after what minimum time will the buses depart again?

Chapter - 10

Geometry

Short Question:

1. How many angles does a quadrilateral have?
2. How many sides does a quadrilateral have?
3. How many vertices does a quadrilateral have?
4. How many diagonals does a quadrilateral have?
5. What type of angles do rectangles have?
6. What type of angles do squares have?
7. What is the sum of 4 angles of a square?
8. What is the relationship between two diagonals of a rectangle?
9. If the length of all sides of a rectangle are equal, then what is it called?
10. What kind of angle is at the corner of your math book?
11. What kind of angle is at the corner of a rectangular board?
12. Which alphabet has right angle shape?
13. What is the common characteristic between rectangle and square?

Creative Question:

1. Draw a rectangle whose length of two sides are 7 cm and 4 cm and then measure the diagonals and then write the characteristics of rectangle.

2. Draw a rectangle whose length of two sides are 3 cm and 5 cm and then define it.

3. Draw a square whose length of one side is 4 cm and define it. Then write its characteristics.

4. An angle of a parallelogram is 70°. Draw the parallelogram and write its three characteristics.

5. A side of a square is 5 cm.

   a) Draw the square.
   b) Write 3 characteristics of the square.

6. An angle of rhombus is 60°.

   a) Draw the rhombus.
   b) Write 3 characteristics of the rhombus.

Short Question:

1. Write an example of proper fraction.
2. Write an example of improper fraction.
3. $\frac{9}{8} + \frac{7}{8} = ?$
4. $\frac{1}{3} - \frac{1}{6} = ?$
5. $2\frac{1}{4} + \frac{3}{4} = ?$
6. Convert $5\frac{8}{10}$ into improper fraction.
7. Convert $\frac{11}{3}$ into mixed fraction.
8. What is the name of the fraction $\frac{3}{2}$?
9. $\frac{3}{8}$ part of a white ribbon is coloured. What part of ribbon remains white?
10. After dividing a roti, Anika gets $\frac{2}{3}$ part and Ayra gets $\frac{1}{3}$ part of the roti. Who get the larger portion?
11. Which is smallest, a proper fraction or improper fraction?
12. What is the lowest form of $\frac{48}{72}$?
13. Write the inverse fraction of $\frac{5}{9}$?
14. Write the reciprocal of $\frac{2}{7}$.
15. Write 2 similar fraction of $\frac{12}{18}$?
16. What type of fraction is set together with an integer in a mixed fraction?
17. $\frac{5}{8} - \frac{1}{2} = ?$
18. *Mr*. Shafiq bought $\frac{1}{4}$ meter cloth of 25 taka. What is the cost of 1 meter cloth?
19. If father divided $\frac{2}{3}$ portion of his properties equally between two sons, what portion will each son get?
20. Shamim gave $\frac{1}{2}$ portion of his property to his daughter. He gave rest of the property to his son. What portion of property did his son get?

Creating Question:

1. *$\frac{1}{6}$ Portion of bamboo is in mud, $\frac{1}{2}$ portion is in water and remaining portion is in above water.*
   a. What portion of the bamboo is in mud and water in total?
   b. What portion of bamboo is above water?
   c. If the length of the portion above water is 2 meter, what will be the length of the bamboo?

2. *Mr. Zaman has 30000 taka. He has spent his $\frac{1}{4}$ part of money to his school. and donated $\frac{2}{3}$ part into poor people.*
   a. How much part of money has he donated in total?

b. How much did he donate to the school?

c. After donating, how much money is left?

3. $\frac{1}{2}$ *Portion of bamboo was colored green,* $\frac{1}{3}$ *portion was colored blue and remained 2 meters was colored yellow for the occasion of annual sports.*

a. What portion of the bamboo is colored yellow?

b. What is the length of the bamboo?

c. How many meters of the bamboo is colored blue?

4. **Mr. Hasan divided his properties among his wife, three sons and one daughter. Sons get $\frac{3}{4}$ portion, and daughter gets $\frac{1}{8}$ portion. His wife gets the remaining portion of the property.**

a. How much portion did his three sons and one daughter get?

b. How much portion did his wife get?

c. How much more portion did 3 sons get from the daughter?

5. **Mr. Karim went to market with 600 tk. He bought rice for $150\frac{1}{4}$ taka, dal for $120\frac{1}{4}$ and fish for $109\frac{1}{4}$ taka.**

a. How much money did he spend in total?

b. What amount of taka remained him after shopping?

c. If he buys double quantity of rice, then how much total taka will be costs?