

Elementary Level Mathematics

# Word Problems



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**The Elementary Level Mathematics**

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## Preface

Word problem, are mathematical problems described through a short story or within few sentences. Today, students in Bangladesh mainly those who are studying at English medium facing some problems to solve word problems as there is lack of enough, proper and available resources. Observing that and promoted by some other requests I took some initiative to fulfill students demand.

In that book there are 26 chapters has been organized in 4 categories-Addition, Subtraction, Multiplication & Division. Totally there are about 500 word problems which have been arranged in “Easy to Hard” order. The ultimate target of that book is to make children skilled in word problems by creating huge variation in case of related context.

I want to thank specially Ilma Publication for publishing that book as well as to those people are involved in the process. If the book becomes a useful tool for the young geniuses I will really grateful to the Almighty as well as to all of my motivator.

Thanks to all.

Ridwanul Mosrur

## Word problem

Today, word problems are very common in mathematics of various level of study. Word problems mainly “a descriptive type mathematical problem” where a specific mathematical problem has been described through a short story or a part of a story in some practical cases. The problem can be solved by using some different techniques and with some fundamental procedure of mathematics.

### How to solve a word problem easily?

Word problem has two points where you need to look carefully. The first is ‘nature of the problem’ means what to do i.e.-addition or subtraction or else. The second point is the statement. However if want go through any word problem easily, you may follow the following steps-

- Read the problem thoroughly and get a touch to feel the problem.
- List the variables and information that are given and that need to identify.

- Along with the variables please check the units (gallons, kg, miles, inches etc.)
- Note what you have to do- addition, subtraction, multiplication, division or multiple of them or something else. There are some key words that indicate what to do. Such as-

If there	Altogether, total, sum, in all	Will be	Addition
	More, less,		Subtraction
	Total, together		Multiplication
	For each, per(people..etc)		Division

- Organize the statements. Normally we put the 'variable we need to find' at right side or at the end of each statement.

## Additions

Addition is a way of combining two or more numbers.

For example: I had 2 mangoes and my mother gave me 3 more. Now I have 5 mangoes if I count them all.

So what we understand? Addition is a mathematical process of putting things together. The plus sign '+' means that the numbers are added together. For example, in the problem above, we added the numbers of the mangoes as  $2+3=5$ .

Addition is used to be written as  $1+2=3$  and read as- 'one plus two equals three.

Additions are the easier task in word problems. Most of the time it is easy and simple. Just look after on notifications such as- sum up, total, altogether etc. After deciding a problem is addition you need to pay more attention to 'what you need in answer'.

Have a look below-

*A shopkeeper sold 269 pens & 356 pencils in November and 298 pencils & 129 pens in December. How many pencils did he sell altogether in November-December?*

*Solution:*

*\*you have to look after **'pencils'** for what the problem is looking for*

<i>In November the shopkeeper sold</i>	<i>356 pencils</i>
<i>In December he sold</i>	<i>298 pencils</i>

-----  
Altogether he sold 654 pencils

**Answer:** In November-December the shopkeeper sold 654 pencils altogether.

Some of you may try to show less carefulness about writing answer of any word problems but beware- it's a conclusion and you should write a full statement here.

**EXERCISE-1**

1. Fuad has 139 chocolates and Nafiz has 231 chocolates. How many chocolates do they have altogether?
2. Adif has tk. 520 and Nodif has tk. 360. How much money do they have altogether?
3. Fatah had tk. 265. Father gave him tk. 500. How much money does Fatah have now?
4. Rohit had 38 color pencils. More gave him 14 new color pencils. How many pencils does Rohit have now?
5. In a coffee shop there are 216 red cups and 196 white cups. How many cups are there in all?
6. Farah has 13 Pink dolls and 16 red dolls. How many dolls does Farah have?
7. In a class there are 20 boys and 19 girls. How many boys and girls are there in the class?
8. In a school library there were 765 story books. If 309 new books

are added in the library what will be the total number of book in that library?

9. In an ice-cream shop there are 327 cone ice creams and 187 bar ice creams. How many ice creams are there altogether?

10. Sazid had Tk. 869. His brother gave him Tk. 350. How much money does Sazid have now?

11. Polin has Tk. 695. Narita has Tk. 400. How much money do they have altogether?

12. In a shop there are 264 red pens and 416 black pens. How many pens are there?

13. If you add 433 with 701 what will you get?

14. Saad had 154 Coins. Farah gave him 63 coins. How many coins does Saad have now?

15. An old man has gone to market in order to buy some foods. He has bought fishes of Tk. 1900, vegetables of Tk. 390, beef of Tk. 3250 and cheese of Tk. 595. How much has he spent altogether?

**EXERCISE -2**

1. In a train there are 891 adults and 327 children. How many people are there in the train?
2. In a restaurant, there are 461 large dishes and 452 small dishes. How many dishes are there in that restaurant?
3. In a DVD shop there are 329 old DVD and 112 new DVD. How many DVD are there in all?
4. Najor has Tk. 816 and Eti has Tk.756. How much money do they have together?
5. In the City Parking there were 86 cars. If 12 new cars are parked there what will be the total number of cars in that car parking?
6. In a cloth shop there are 153 short shirts and 201 long shirts. How many shirts are there in all?
7. In a book these are 86 additions and 53 subtractions. How many additions and subtraction are there?

8. You had Tk. 760. Your Mom gave you Tk. 500. What is the amount of money do you have now?
9. In red copy there are 129 pages. In green copy there are 127 pages. How many pages are there in those two copies together?
10. In a bottle factory there are 900 large bottles and 780 small bottles. If there are no mid-size bottle, how many bottles are there altogether?
11. In a pond there are 650 large fishes and 992 small fishes. How many fishes are there?
12. If you add 300 with 300 what will you get?
13. I have visited 133 kms by my car and 230 kms by a bus. What was the total distance of my journey?
14. In your school shop there are 426 ball pens and 351 gel pens. How many pens are there in the shop?
15. You have bought a Rolex wristwatch at tk. 2300 and a shirt at tk. 990. What is the amount of the money you have spent?

**EXERCISE-3**

1. In Dhamondi Lake there are 109 small boats and 23 other boats. How many boats are there in Dhanmondi Lake?
2. In a music CD there are 72 audio songs and in another CD there are 91 audio songs. How many songs are there altogether?
3. In a Mosque these are 115 people. If 22 New people come there what will be the total number of people?
4. In your computer there are 1023 music files and 17031 document files. How many files are there in your computer?
5. In a book there are 17 rhymes and 12 stories. How many rhymes and stories are there in that book?
6. If you add 731 with 269 what will you get?
7. Bird's lover is a famous pet bird shop in Dhaka. In that shop there are 2369 small birds 1716

- mid size birds and 927 large birds. How many birds are there altogether?
8. In 1996 a Journalist wrote 237 articles and in 1997 he wrote 219 articles. How many articles did he write in those two years?
  9. In a drug store there are 3026 tablets and 3210 capsules. How many tablets and capsules are there in that drag store?
  10. In a clothe shop there are 629 shirts and 495 T-shirts. How many shirts and T-shirts are there altogether?
  11. A pet cat cost tk. 850 and a pet dog cost tk.9000. It Shousan want to buy both of the pets how much money does Shousan have to spent?
  12. In bus there are 36 people. In another bus there are 42 people. How many people are there in those two buses together?
  13. A farmer produced 2631 pumpkins in a field. In another field the farmer got 3036

pumpkins. How many pumpkins did farmer get?

14. In a flower shop there are 665 roses and 357 Jasmines. How many roses and jasmines are there in that flower shop?
15. From Chitagong to Dhaka in is 321 Kilometers. From Dhaka Rajshahi is 256 Kilometers. What is the distance form Chittagong to Rajshahi via Dhaka?

**EXERCISE-4**

1. Saladin has tk. 3026 and Alvi has tk. 4020. How much money do they have together?
2. In a library there are 6929 books. If 327 new books are added. What will be the total number of books?
3. In a book, there are 2099 pictures. In another book there are 1024 pictures. How many pictures are there in that two books altogether?
4. In army there were 18269 officers. If 359 new officers recruited recently. What will be the total number of army officer now?
5. In a lake there were 13206 fishes caught in one day. In another day 16887 fishes were caught. What will be the number of total fishes caught in those two days?
6. A fisherman caught 1039 fishes in a day. In that day another

fisherman caught 1326 fishes.  
How many fishes did they catch?

7. The price of a shirt is tk. 2500 and the price of a watch is tk. 3000. What is the total price of that shirt and watch together?
8. Sarah and Fariha are friends. Sarah has tk. 13500 and Fariha has tk. 12700. If Fariha gives Sarah all her money. What will be the amount of Sarah's money?
9. In a Showroom there are 6503 packets of black colored shoes and 9434 other colored shoes. How many shoes are there in that showroom?
10. A laptop is cost. tk. 699.00 and desktop PC cost tk. 39850, what will be the total price of that both computers?
11. PSP games 'Vice City' Costs tk. 3500 and "Fifa 2007" costs tk. 2800. What will be their total cost?
12. A jet plane fuel costs tk. 7500 per hour and the fuel cost of cargo plane is tk. 11500 per

hour if both planes fly together what will be their total fuel cost?

13. In a small coffee shop there are 1590 customers come in the first 3 days of week. If 1980 customers come in the last 4 days of the week then how many customers came in that week?

14. In a book there are 10126 words. In another book there 12510 words. How many words are there in that two books altogether?

15. The price of a Dell desktop PC is tk.93580 and the price of a NEC desktop PC is tk. 69590. If Mr. Ali wants to buy that both PC how much money does he have to spend?

**EXERCISE-5**

1. In a fruit shop there are 5013 ripe mangoes and 4109 green mangoes. How many mangoes are there altogether?
2. In a school there are 32998 students. If 912 new students got admitted there what will be the total number of students?
3. Mr. Rahim had tk. 10289. In last month if he made a profit of tk.3292 how much money does he has now?
4. A man wants to go to Rajshahi from Chittagong via Dhaka. The man wants to visit by his car. The fuel cost from Chittagong to Dhaka is tk. 6580 and the fuel cost form Dhaka to Rajshahi is tk.4350. How much money does he have to spend for fuel?
5. In Nondon Park there are 10267 visitors came in June. In July there came 11369 visitors. How many visitors did come in June and July?
6. In a furniture shop there are some wood made furniture and

some are iron made furniture. The total cost of all wood made furniture is tk.995895 and the total cost of all iron made furniture is tk.371800. What is the price of all furniture of that shop?

7. Mr. Sharp likes to eat fish. One day in the market he can see that, there are 465 large fishes, 1925 medium size fishes and 3005 small fishes. How many fishes are there?
8. In a book these are five poems. First, second and third poems have 12 lines each. Fourth poem has 14 lines and Fifth poem has 14 lines. How many lines do they have altogether?
9. In a cup boards there are 150 cups, 315 plates, 400 spoons and 400 forks. There are also 52 bowls and 600 glasses. How many things are there?
10. In a mega shop there are 2719 bottles of mango juice and 1979 bottles of red grape juice. If all sold in a day how many bottles of juice sold in that day?

11. In a day a textile factory produced 3492 T-shirts in first shift and 4292 t-shirts seconds in second shift. How many t-shirts were produced in that day?
12. In an election Mr. Rahman got 897537 votes and Mr. Chowdhury got 5973118 votes. If there no more competitors how many people had voted?
13. In an exhibition in the first day 5392 people came, in seconds day 7123 people came, and 9230 people came in last day. What is the total number of visitors in that exhibition?
14. What will you get if you add 583925 with 2000001?
15. Add 3269 and 58924. If you add 96259 with their summation what will you get?

**EXERCISE-6**

1. In last Friday 1239 children have visited the national zoo. In that same day 954 adults also have visited. In that day there were 124 workers present in the zoo. How many people were there?
2. In the independent day's parade 1024 boys and 1024 girls were present. How many children were present at the Parade?
3. A milk man carried 1124 bottles in Saturday. In Sunday he carried 3269 bottles. What is total number of bottles carried by the milk man in those two days?
4. Mr. Moro has 2903 sheep and Mr. Martiu has 3292 sheep. How money sheep do they have together?
5. A tea man sold 299 cups of tea in Friday. In Saturday he couldn't sell a single cup of tea. How many cup of tea did he sell in those two days?
6. Rakib and Sakib are two brothers. Rakib has 19

Chocolates and Sakib has 13 pencils. How many chocolates do they have together?

7. Sarita and Narita are two sisters. Sarita has tk. 3500 but Narita has no money. How much money do they have together?
8. In a drug store there are 12674 capsules and 14924 tablets. How many tablets and capsules are there?
9. In your school library there are 1700 books, 2100 magazines and 1775 reference books. How many educational materials are there in your school library?
10. In a private bank there are 71565 saving accounts 29586 current accounts and 9585 depositary accounts. What is the total number of accounts in that bank?
11. In a Jungle survey it is found that there are 12761 animals, 76320 insects and 13294 birds in a forest. There are also 7496810 trees in those forests. What is the total number of living things in that forest?

12. In a six-storied car parking in the ground floor there are 89 cars. In first floor 96 cars, in second floor 87 cars, in third floor 79 cars, in fourth floor 69 and in fifth floor these 72 cars. How many cars are parked in that building?
13. In a tree plantation program 12079 trees are planted at first time and at second time 13012 trees are planted. If 11265 trees are planted at third time what will be the total number of planted trees?
14. In a cell phone's phone book 367 phone numbers were saved. If 32 new phone numbers are added what will be the total phone numbers in that cell phone?
15. What will you get if you add 694567 with 17674928?

**EXERCISE-7**

1. Mr. Hasan has tk. 3635650 and Mrs. Hasan has tk. 3567900. They have a child only. The name of the child is Maruf. If they give all the money to their son what will be the total amount of money that Maruf get?
2. Rohit and Raja are two brothers. Both of the brothers have tk.36580 per each. How much money do they have altogether?
3. Nishi and Poiti, each has tk. 959250. What is the amount of their total money?
4. In a forest those are 1709 little birds, 896 large birds and 1705 deer. How many animals are these in that forest?
5. Mili has 3 pet cats. They are Tom, Tikki and Topi. Food for Tom costs tk. 3250, food for Tikki costs tk.2925 and food for Topi costs tk.3790 in a month. How much money Mili has to spends for her cats monthly?

6. In a forest there are 750 monkeys, 710 donkeys, 251 Tigers and 315 deer. What is the total number of animals in that forest?
7. In a large lake there are 17573 large fishes, 56203 small fishes and 2305 frogs. How many fishes are these in that lake?
8. In an Automobile showroom there are 52 Toyota cars, 36 BMW cars, 35 Mitsubishi cars, and 62 Motorbikes. What is the total number of cars in that showroom?
9. In a shopping Mall there are 3159 man and 2952 ladies visited on Sunday. In that day 359 children visited that Mall. How many people visited that shopping Mall in that day?
10. Era has tk.569250 and Jara has tk.653294. If they give all their money to their only brother Nehal how much money does Nehal get from his two sisters?
11. Jodu sold 52 bananas and 36 apples to Modu. How many fruits did Modu buy from Jodu?

12. 'Birds lovers Corner' is a famous shop for pet lovers. In that shop there are 536 small birds, 89 large birds, 32 cats, 21 dogs and 79 other different animals. How many birds are there in that shop?
  
13. In a village exhibition there are some toyshops. In one toyshop there are 63 mud made toys, 32 wood made toys and 79 plastic made toys. How many toys are there in that shop?
  
14. What will you get if you add four-digit's largest number with four-digit's smallest number?
  
15. What will you get if you add the smallest number of five digits with six digits smallest number?

## Subtraction

Subtraction is a process of finding the difference between two numbers.

For example:

I have 9 apples and if I give 5 apples to my younger brother I will have 4 apples rest.

Subtraction is the mathematical process of finding the difference between two numbers. The minus sign '-' means the number followed by the sign will be subtracted from the first number.

Mathematically, it is the reverse process of addition but like addition it is not commutative which means the order is important here. We must have to subtract the number sit after the sign from the number sit before the minus sign (-).

For example:

"8-5" means 5 should be subtract from 8.

Another important matter is, in Arithmetic problems, only smaller number can be subtract from greater number. In addition you can put more than two numbers together such as  $3+5+6+9=23$  but in case of subtraction you can't. Only two numbers can consist a mathematical expression of a subtraction.

For example:

$$27-13=14$$

Where 27 is called 'minuend' and 3 is called 'subtrahend'. The result 14 is normally denoted as 'difference'. Though the terms 'minuend' and 'subtrahend' are quite unknown to the modern user but the 'difference' remains and widely use in now a days.

In case of a word problem, most of the time you have to find the difference that is demanded in the problem. But language will not plain always; you may find some other words or phrases such as-'how much more/less'.

Sometimes you may have to go through inverse process. Such as-

*Ripa has Tk.321 less than Nipa. If Ripa has Tk.825 how much does Nipa has?*

A way to solve can be-

<i>Ripa has</i>	<i>Tk.825</i>
<i>Less than Nipa</i>	<i>Tk.321</i>
<i>So, Nipa has</i>	<i>Tk.1146</i>

*Answer: Nipa has Tk.1146*

Some students try to show less carefulness about writing answer of any word problems but beware-it's a conclusion and you should write a full statement here.

## Exercise-8

1. On a branch of a tree there are 19 birds. If 5 birds fly away then how many birds are there now?
2. A fish seller has 132 fishes. If he sells 65 fishes how many fishes would he have?
3. In Mr. Rahim's Cell Phone's account there is tk. 329. Mr. Rahim makes a call which cost is tk. 65. After that call how much money will remain in his account?
4. Farah has tk. 3690 and Sarah has tk. 2395. How much money does Farah has more?
5. In a public place there are 1629 people. If 129 people go away then how many people are left there?
6. A man had tk. 3292. He has bought some fishes by tk. 1200. How much money does he have now?
7. What will you get if you subtract 325 out of 4500?

8. Fatah has 69 chocolates. If he gives 32 chocolates to his sister how many chocolates will he have?
9. Farida has tk. 1925 and Rita has tk. 625. How much money does Farida has more?
10. In a burger shop there are 569 burgers in the morning. If 269 burgers are sold within afternoon then how many burgers will be left at the evening?
11. Mona had tk. 15650. She bought a red dress at tk. 3000 How much money does she left now?
12. In Friday morning a framer got 350 eggs. If 21 eggs have broken at the time of carrying them how many eggs are there okay?
13. Parvin lives in a village. She has 13 ducks and 14 hens. If 2 ducks die then how many ducks are left alive?
14. Nadif has 41 color pencils. If he gives 13 pencils to Adif them how many pencils does Nadif has left?
15. Mr. Morison has earned tk. 650 and has spent tk. 390 in last Monday. How much money has he saved in that day?

## Exercise-9

1. In your computer there are 15692 files. If you delete 396 files from them, then how many files are left in your computer?
2. A man earns tk. 450 and spends tk. 300 per day. He saved the rest of the money. How much money does he could save per day?
3. In a pond there are 6593 fishes. If 364 fishes are caught then how many fishes will be left in that pond?
4. Sarita has tk. 3250 and Narita has tk. 325. How much money does Sarita has more?
5. Marine has bought a chocolate box which contains 360 chocolate. If she gives 45 chocolates to Ripa how many chocolate does she left.
6. In Army there are 15000 soldiers. If 63 soldiers die in a war how many soldiers are left?
7. In your book these are 21 rhymes. If you have memorized 9 rhymes

already then how many rhymes are left to memorize?

8. In the parade of independent day there were 1325 children. Among them if 726 were boys then how many girls were there?
9. In a drug store there were 133290 tablets at Friday evening. If 2615 tablets are sold by Saturday. How many tablets will be left in Sunday morning?
10. How much more is 1369 than 454?
11. Ana has tk. 4692 and Tina has tk. 3256. Who has more money and how much more?
12. In a pet shop there were 601 pets. If 133 pets sold in a month then how many pets are left in that shop?
13. In the Petrol tank of a car there were 60 liters of petrol. If 29 liters of petrol has been spent the how much petrol is left?
14. Akram has written 13 articles in October and 22 articles in total.

How many articles has he written in November?

15. A shopkeeper bought some product in tk. 13690 and sold in tk. 13960. How much did he profit?

**Exercise-10**

1. A pet cat cost tk. 950 and a pet dog costs tk. 5000. How much more the pet dog costs?
2. Muhit had tk. 5695. He spent tk. 3692. Rest of money he gave to his sister Mumtahina. How much money did Mumtahina get?
3. The total number of students of class is 35. If 7 students are absent today them how many students are present today?
4. In a bus of city services there are 49 passengers. 13 passenger got dawn form bus in stoppage. If no new passenger got into the bus then how many passengers are in that bus?
5. How much more are 999 than 99?
6. A farmer has produced 2013 pumpkins in his fields. Among them 313 pumpkins are green. How many pumpkins are not green?

7. Fazly had tk. 9650. He gives tk. 3000 to his sister. How much money does Fazly has now?
8. Samita has tk. 1350. She wants to buy some food for her pet cat. The food costs tk. 1500. Can she buy the food?
9. In you cell phone's phone book 327 phone numbers are saved. If you delete the useless 61 phone numbers then how many phone numbers do you have in your cell phone?
10. What you get if you subtract 369 from 8901?
11. How much more is tk.69543 than tk.34920?
12. You have tk. 4926.If you buy a book of tk. 999 how much money will you have?
13. A fruit seller had 532 mangoes yesterday. Today he has sold 167 mangoes. How many mangoes will he have tomorrow?
14. In a school the total number of students is 1800. Among them 950 are boys. How many girls are in that school?
15. In your school library these 165659 books. Among them 12671 book are old. How many books are new in your school library?

## Exercise-11

1. In last Friday 959 children has visited the National zoo. If the total number of visitors is 1767. How many adults have visited the zoo at that day?
2. In a fruits shop there were 1925 fruits. If 367 fruits have sold then how many fruits are left?
3. A man earned tk. 83790 and spent tk. 61500. He saved the rest of money. How much money did he save?
4. In your Math copy there are 120 pages. If you have used 67 pages then how many pages are left to write?
5. Sakib has tk.6590 and Rakib has tk.7630. Who has more money and how much more?
6. Subtract two-digit's smallest number from four-digit's largest number.
7. The total production of a bottle factory is 96583 bottles in one month. If 69717 bottles are large then how many bottles are small?

8. How much more is 6666 than 999?
9. A frog ate 93 insects in a day. In daytime the frog ate 27 insects. At night how many insects did that frog eat?
10. Alex has 821 friends at Facebook. Among them 326 are girls. How many boys are the friends of Alex?
11. In a box these were 58 sweetmeats. If someone ate 13 sweetmeats then how many sweetmeats will be left in that box?
12. In Bata showroom there are 123 pairs of shoes. Among them 67 pairs of shoes are black. How many pairs are of different colors?
13. In a country, there are 42890 doctors. Among them 23779 are lady doctors. How many male doctors are in that country?
14. Nigen has tk. 31977. He has spent tk. 21650 to buy a cell phone. How much money does he left?
15. What will you get if you. Subtract 000 from 0000?

## Exercise-12

1. In October, 2008. The Cell phone Nokia N82 costs tk. 50,838/- and another cell phone Nokia N70 costs tk. 14580/- How much more is the cost of N82.
2. Michel and Miguel ere writing a composition on Birds. Michel wrote 153 words and Miguel wrote 1209 words. How many words more did Michel write?
3. In an election Mr. Robert got 52631 votes and Mr. Kane got 64329 votes. Who got more votes and how many votes did he get more?
4. Noyon had tk. 16390. He has bought a cell phone at tk. 13990. How much money does he have?
5. The total run of Braiyn Lara is 12706 and the total run of Tendulkar is 11353. How much run does Lara have more?
6. Sarita had tk. 6930. She has given tk.3000 to her younger sister Narita. How much money does she left?

7. The age of Mr. Rafiq is 61 years and Mr. Shofiq's age is 54 year. How much older is Mr. Rofiq?
8. In a drug store there were two types of drug (tablets & capsules). In that shop there were 13097 capsules. If the total number of drugs is 46713 in that shop then how many tablets are there?
9. A man wants to sell his used BMW car at tk. 17,00,000/- and want to buy a Toyota at 12,00,000/-. How much money can he save?
10. I have tk.13250. I want to spend tk.6500 tonight. How much money will I have tomorrow?
11. How much money will remain left if I spend tk. 9000 from tk. 18000?
12. Shamim had tk. 15690. He wants to buy a Rolex wrist watch at tk. 12000. How much can be save?
13. In a coffee shop today's total income is tk. 19560. The total material cost is tk. 17950. What is the amount of the profit?

14. I have five large trees. The price of those five trees together is tk.196500. If I sell four trees among them the price will be tk. 147800. What is the price of the Fifth tree?
15. In a paddy field there were 11209 insects. If 6594 insects die how many insects will be left?

**Exercise-13**

1. How much more are 17990 than 11290?
2. How much less are 17990 from 77950?
3. Subtract three digits largest number from five digits largest number?
4. How much more is tk. 695009 than tk. 69959?
5. Subtract two-digit's smallest number from four-digit's largest number?
6. Subtract three-digit's largest number from four-digit's smallest number?
7. In your computer there are 1279 pictures. If you delete 161 pictures then how many pictures will be left at last?
8. From Khulna, Dhaka is 345 kilometers. You have passed 196 kilometers from Khulna. How many kilometers you have to go to reach in Dhaka?

9. In your School library there are 12000 books. If 1200 books are new then how many old book are there?
10. In an area there are 51790 voters. In the election 48177 voters have been voted. How many voters were absent there?
11. In a media library there are 47018 audio songs. Among them 9654 songs are bengali. How many songs are not bengali?
12. In BRAC bank, Dhanmondi branch, the total number of current accounts and savings accounts are 15752. Among them there are 4742 savings accounts. What will be the number of current accounts in that branch?
13. An egg-seller has 1705 eggs in his shop. Among them 19 eggs are found as spoiled. How many eggs are reaming good?
14. Silvia has tk.17999 in the morning. By the noon she has spent tk. 1799. How much money does she have now in the afternoon?
15. I had tk. 795550. If I buy a cell phone at tk. 285 and a music player at tk. 95500 how much money will I have left?

## Exercise-14

1. In last Saturday, 2017 visitors have visited the National Museum. Among them 995 visitors are children. How many visitors are adult?
2. In a pastry shop there are 109 sponge cakes. The total cost of them is tk.4100. The cakes are sold in that day make a cost of tk.15000. What is the cost of the rest of the cake?
3. A king wants to make a Pyramid for him. For this he has appointed 2000 people. Among them only 1200 were women. How many men were there.
4. Anila has tk. 309546. If she lost tk. 32000 how much will remain to her?
5. On the table there were two boxes. In one box there are 1249532 pieces of tools. At the time of earning if 2069 tools have broken how many tools were left ok?
6. The price of one kg. Gold is tk.96500 and the price of one kg

silver is tk.39560. Which cost more? How much more?

7. Mr. Shakur has Tk. 1550. If he buy 1 kg fish at tk.500 and 5kgs of rice at tk.260 how much will remain to him?
8. In a cargo carrier there are 12700 barrel of refined oil. If 560 barrels spoiled at the time of unloading how many barrels will remain safe?
9. A farmer has a poultry farm. In that farm there are 2350 hens and 1230 ducks. If 36 hens die suddenly then how many hen will left?
10. In a forest there were 13692 trees. If 3991 trees burned in a flame then how many will remain safe?
11. In a drug store these are 13590 tablets and kg 1092 capsules. If 315 tablets are sold then how many capsules will left?
12. Mara had tk. 20500. He has bought a shirt at tk.1200, a MP3 player at tk. 4900 and a box of chocolates at tk. 890. How much money has he now?

13. What is the difference between them?
- Largest number of four digits and smallest number of four digits.
  - Largest number of four digit and largest number of three digits.
14. In your school library there are 12065 books. If 2133 books have bought in this year then how many books are there before this year?
15. A race driver has earned tk.1023950 in the last three months of 2008. If he earned tk. 439980 of October and tk. 235510 at November then how much as he earned in December?

## Multiplication

Multiplication is the replacement of repeated addition. If a number 7 is repeated for 5 times in a addition, instead of doing multiple times of addition we do multiplication as  $7 \times 5$ . Let's see-

$$7+7+7+7+7=35$$

Instead of doing that we can do multiplication-

$$7 \times 5 = 35$$

The ideas of multiplication come throughout the thinking for elimination of repeated addition. In order to make the process easy and smart, multiplication has been introduced.

Let's have an example-

*A gardener wants to plant 23 trees per row. If there are 12 rows in his land how many trees can he plant altogether?*

*\*\*what will you put first?—Number of trees per row or Number of row.*

***Look**, you have to find the total number of plants. So,*

*you have to put 'Number of plants per row' first.*

*In 1 row the gardener can plant 23 trees*

*In 12 rows the gardener can plant  $23 \times 12$  trees*

---

*Altogether he can plant 276 trees*

*Answer: The gardener can plant 276 trees altogether.*

**Exercise-15**

1. Multiply 233 with 7.
2. 7 notes of tk. 50 make how much money?
3. A sheep has 4 legs. 32 sheep have how many legs?
4. In a box there are 12 marbles. How many marbles will be in same 13 boxes?
5. A dog has 4 legs and 2 eyes. 118 dogs have how many eyes?
6. 1 taka is equal to 100 paisa. Tk.37 equals to how many paisa?
7. In a flower garden there are 8 rows of flower bushes. If each row contains 13 flower bushes then what is the total number of flower bushes in that garden?
8. What will you get if you multiply 1237 with 10?
9. On a battle field a group of army, has taken position. They are standing in 7 rows. In each row, there are 15 soldiers how many soldiers are there totally?

10. 14 notes of tk.5 make how much money?

11. In a box there are 9 mangoes. How many mangoes will be those in 12 same boxes?

12. In a box there are 24 capsules. How many capsules will be in 6 boxes?

13. 7 days makes a week. 12 week make how many days?

14. Radha 19 notes of tk. 20. How much money does she has?

## Exercise-16

1. A monkey eats 2 bananas as breakfast. How many bananas will be needed for 316 monkeys for breakfast?
2. A bus can carry 36 people. How many will be carried by 20 same bus?
3. In a fast food shop there are 37 burgers only. Each burger contains 3 layers of flesh. How many layers of flesh are totally?
4. A flower has 4 petals. 206 flowers have how many petals?
5. A bottle contains 500 ml of cold drinks. What amount of cold drinks will be contained by 106 bottles?
6. The average required amount of water is 4 liters for a cricket player. How much water will be need for 11 players?
7. Mr. Rahim spends tk. 500 daily as pocket money. How much money will he spend in 15 days?

8. In a school there are 17 classrooms. In each classroom there are 25 students. How many students are there totally?
9. A man earns tk. 450 daily. How much money will he earn in a week?
10. In a packet there are chocolates. How many chocolates will be in 16 packets?
11. In a group there are 5 boys. If each boy has tk. 500. How much money do they have together?
12. A care of cold drinks cost tk. 20 what will be the total cost of 15 canes?
13. The cost of a T-shirt is tk. 150. What will be the total cost of 59 same T-shirt?
14. A car has 4 wheels. 1500 cars have how many wheel altogether?
15. In a box there are 20 chicken fry. How many chicken fry will be there in such 27 boxes?

**Exercise-17**

1. A mosque has 4 domes. How many domes will be there in 18 such mosque?
2. The price of an apple is tk. 35. What will be the cost of 95 apples?
3. In a book there are 14 rhymes. How many rhymes will be there in 95 books?
4. A drug seller wants to sell 183 capsules. If each capsule costs tk. 14 then what will be their total cost?
5. I need 14 liters of petrols per day for my car. If 1 liter of petrol cost tk. 89 then how much I have to spent daily?
6. A cup of coffee costs tk. 35. How much will I have to spend for 15 cups?
7. In a classroom there are 9 rows of seats. If each row contains 8 seats then how many seats are there altogether?

8. Multiply 9259 with 10.
9. What will you get if you multiply the smallest number of 3 digits by 17?
10. A room has 4 windows. If each window cost tk. 9500 then what will be their total cost?
11. A chair cost tk. 5000. What will be the total cost for 5 chairs?
12. Narita wants to buy 3 dresses. If each dress cost tk. 14500 then how to spend for her dresses?
13. A fish seller has sold 32 fishes. Each fish costs tk. 150. How much could he earn by selling them all?
14. For your school library 156 books will be needed. The average cost per book is tk. 300 how much will they need to buy them all?
15. Multiply the three-digit's largest number with two-digit's largest number.

## Exercise-18

1. In a flower garden there are 59 flower bushes. In each bush there are 14 flowers. What are the total numbers of flowers in that garden?
2. The average run of Shariar Nafis is 27. If he has played 71 matches. What is his total run?
3. For cricket 6 balls make an over. 50 over made by how many balls?
4. In a famous textile mill there are 1172 machines. 4 workers are needed to operate each machine. How many workers will be needed totally?
5. A fisher man caught 43 same sized fish. He makes tk. 14 as profit from each fish. What will be his total profit?
6. The average run of Mohammad Ashraful is 29. If he has played 376 matches what will be his total run?

7. The average income of Mr. Ahmed is tk. 400 per day. What will be his monthly income?
8. A worker earns tk. 150 per day. What will be his earning for 22 days?
9. What will be the cost of a dozen of banana if each banana's price is tk. 3?
10. The average run for a cricketer is 32. If he had played 116 one-day innings then what will be the total run of the cricketer for one-day innings?
11. What will be the cost of 48 pair of shoes if each pair of shoes cost tk. 1250?
12. In average the Australian bowler Lee got 3 wickets per match. If he had played 326 matches how many wickets could be gathered?
13. Multiply 1250 with the largest two digits number?
14. What will you get if you multiply 123 two digits largest number?

## Exercise-19

1. 15 Notes of tk. 50 make how much money?
2. A motorcycle can go 61 km in one liter of petrol. This motorcycle can go how many km in 7.5 liter?
3. 1 kilometer makes 1000 meters. 76 kilometers make how much meters?
4. 7 friends want to drink a cup of coffee. If each cup costs tk. 35 then how much they have to spend totally?
5. 100 paisa makes 1 taka. If I have tk. 31 then how many paisa do I have?
6. A tractor can plough 1407 square meter in 1 liter diesel. How much land can be ploughed by 35 liters of diesel?
7. A bucket can contain 25 liters of water. Similar 7 buckets can contain how much water?

8. A cow gives 5 liters of milk daily. Similar 14 cows give how much of milk?
9. 25 notes of tk. 20 make how much money?
10. What will you get if you multiply 992 by 19?
11. The Price of a shirt is tk.750. How much cost will be for such 15 shirts?
12. Nadif has 60 color pencils. Each pencil cost 12 taka. What is the cost of all color pencils?
13. The cost of a shirt is tk. 250. What will be the cost of 50 shirts?
14. A motorcycle can run 58 kilomerters in 1 liter. With 8 liters the motorcycle can run how much distance?
15. The cost of a box of chicken of KFC is tk.1260. If I want to buy 12 box of chicken how much money will I need?

## Exercise-20

1. The cost of a Nokia N95 is tk.465500. If anyone wants to buy 7 Nokia N95 how much money does he need?
2. A professional cricketer gets tk. 5000 for each cricket match he played. If he played 37 matches in a year then how much money could he earn?
3. In an Orchard there are 15 rows of mango trees. In each row there are 15 trees. How many trees are there in the orchard?
4. In a factory 2339 workers are working. If each worker gets tk. 120 daily what will be the total expenditure?
5. For a study tour 12 buses were reserved. Each bus carried 36 students. How many students have been participated?
6. A typewriter can type 32 words in a minute. How many words it can type in an hour?

7. I have 19 notes of tk. 500. How much money do I have?
8. In a library there are 23 tables? With each table there are 6 chairs. How many chairs are there altogether?
9. The book "Principals of Moderns physics" has 37 pages. The average number of words is 469 per page. How many words are there in all those pages?
10. A farmer has dairy farm whose there are 41 cows. Each cow gives 4.51 liters of milk every day. How much milk has been produced in that farm?
11. A farmer collected 2356 eggs in a week from his farm. Each egg cost tk. 6. If he has sold all the eggs how much money has he earned?
12. The top speed of a jet fighter is 356 kilometers per hour. If it moves at its top speed then how many kilometers in can go in 3 hours?
13. A petrol tanker can carry 91878 liters of petrol. How much

petrol such 17 petrol tankers can carry?

14. In 2005 the richest person Bill Gates has earned \$121239 per hour. How much has he earned per day?

15. A textile produces 1890 T-shirts per day. How many T-shirts it can produce in a month?

## Exercise-21

1. In a flower garden there are 13 rows of flower bushes. In each row there are 5 bushes. How many flower bushes are there in the garden?
2. Multiply four digits largest number by two digits largest number?
3. A man has bought 85 black roses. If each rose costs tk. 40 then how much money he has to spend?
4. A shoemaker company has sold 12730 pair of shoes of a popular design in a winter offer. If each pair costs tk.850 then what will the total sell money?
5. The price of a dozen of apple is tk. 330. What will be the cost of 19 dozens of apple?
6. A farmer wants to make garden. He wants to make 16 rows with 13 trees in each row. How many trees does he want to plant?

7. A petrol boat needs 1L petrol to move 8 km. How much distance can it go with 45L of petrol?
8. A fan company has produced 10565 fans in a season. If each fan has 4 blades than how many blades they have to make?
9. 100 notes of tk. 1000 make how much money?
10. A truck has carried 57 bottles of milk. If each bottle carries 3 litres of milk then how many liters of milk are there?
11. With a gallon of ink a pen factory can produce 63 pens. With 80 gallons of ink how many per can they produce?
12. In a Jewellery shop there are 57 pieces of black diamond. If each piece costs tk. 51000 then what will be the total cost?
13. At the Independence Day's parade there are 5 rows of boys and 5 rows of girls that contain equal number of members. If each rows contains 32 members what will be the total number of children?

## Division

Division is splitting into equal parts or groups which may result for 'equal or fair sharing'.

Let's have an example-

There are 18 chocolates and 3 friends want to share them. How do they can determine that how many chocolates each can take?

The answer is quite simple as we know the process 'division'

The friends just need to divide 18 chocolates among 3 of them;

$$18 \div 3 = 6$$

So each friend can take 3 chocolates.

Here in the above equation  $[18 \div 3 = 6]$

18 is named as 'dividend'

3 is named as 'divisor'

& 6 is named as 'quotient'

Here in word problems, the problems of division are need to be solved in quite similar process of multiplication.

**Exercise-22**

1. Divide 132 by 4.
2. A box can contain 15 words. How many boxes will be need for 750 marbles?
3. If Tk. 1 is equal to 100 paisa then 1300 paisa is equal to how many taka?
4. If 66 tourists are divided in 11 groups then how many tourists are there in each group?
5. What will you get if you divide 1440 by 12?
6. In a shop there are 235 cakes. The shop keeper wanted to pack 5 cakes in a pocket will he need?
7. An egg cost tk.10. How many eggs can I buy if I have tk.570?
8. 3 notes of tk. 5 make tk. 15. How many notes of tk.5 make tk. 450?
9. Divide 9999 by 9.
10. Mr. Hadi has tk. 2500. He wants to divide it equally among his 54

sons? How much money each son get?

11. A man wants to plant 500 trees in his field. He is decided to plant all the trees in 25 rows. If all rows contain equal number of plant then each row contains how many trees?
12. Rani has bought a box of chocolates at tk.600. In the packet there are 50 chocolates. What is the cost per each chocolate?
13. Divide for digits largest number with one digits largest number?
14. How many notes of 50 paisa will need to make 100 takes?

**Exercise-23**

1. A farmer has counted 1248 legs in his farm. If each sheep has 4 legs then how many sheep are there?
2. In a large box there are 1000 marbles which are packed equally in some other small boxes inside the large box. The number of small boxes is 20. How many marbles does each small box have?
3. A man wanted to divide 169 mangoes among 13 children equally. How many mangoes does each child get?
4. The price of a box of capsule is tk.2400. If the box contains 48 capsules then each capsule cost how much money?
5. Each week has 7 days. 266 days makes how many weeks?
6. If 60 seconds make a minute then 3600 seconds make how many minute?
7. A machine gunner can shoot 70 bullets. To shoot 910 bullets how many minutes will he takes?

8. A packet of lunch cost tk. 480. With tk. 7200 how many book can I buy?
9. The distance between Dhaka to Chittagong is about 350 kilometers. If bus moves at a speed of 50 km/h how much time will the bus need to reach in Chittagong from Dhaka?
10. Divide four digits largest number by two digits largest number?
11. In the National zoo there are 57 monkeys. For their breakfast there are 228 bananas. How many bananas are there for each monkey?
12. Divide 12950 by 50?
13. A ship is earning 15000 apples. The apples are in some boxes. Each box contains 500 apples. How many apples are there in each box?
14. How many notes of tk.2 make tk.1500?
15. How many notes of tk.5 make tk.1500?

## Exercise-24

1. Radha gave some notes of tk.50 to Rumi. The total amount of given money is tk.400. How many notes has he given?
2. I have 500 chocolates. I want to give it among 25 boys. How many chocolates will each boy get?
3. The price of a BFC chicken fry is tk.120. With tk.2400 how many chicken fry can I get?
4. A businessman has bought some shares of each tk. 215. His total investment for that is tk.32250. How many shares has he bought?
5. I have tk.1000 with that money I want to buy some American apple. Each apple cost tk.65. How many apples can I buy with that money?
6. Mr. Rahim wanted to divide tk.1000000 among his 4 sons. How much money does each son get?

7. What will you get if you divide 100 by 100?
8. A cricketer has collected 5135 runs in 373 matches. What is his average run?
9. A bowler has collected 570 wickets in 190 cricket matches. What is his average?
10. I have tk.510. Each burger cost tk.30. How many burgers can I buy?
11. The price of a 1660 sq ft. Flat in Dhanmondi is tk.18000000. What is the cost of each sq ft?
12. The weekly production of a juice factory is 12750L. How many litre-pack of juice can be supplied from that week's production?
13. A packet of chocolate costs tk. 7500. If there are 150. If there are 150chocolates in that packet when what is the cost for each packet?
14. What will you get if you divide 95911 by 1?
15. I have tk.20 notes only. The total amount I have is 12780. How many notes do I have?

## Exercise-25

1. There are 25 students in a class if teacher wants to make 5 groups then how many students will be there in each group?
2. Mr. Martin has \$393. He wants to give all his money to Sali, Robert and James equally. How much money does each get?
3. A farmer has collected 238 bags of from his farm where there are 119 sheep. How many bags of wool have been collected from each sheep?
4. In a famous school there are 200 students got admitted. Teachers wanted to make sections with maximum 25 students. How much section will be there?
5. An old farmer has 11850kgs of wheat. He wants to make some 50 kgs bag with how many bags will be needed?
6. I want to buy some chocolates. Each chocolate costs tk. 25 and I have tk.2000. How many chocolates can I buy

7. I have 998MB disc space in my computer. I want to store photo there? The file size of each photo is 2MB. How many photos can I store?
8. I have 700 marbles. I want to divide it among 14 children equally. How many marbles does each get?
9. Al Razi has 1000 gold coins. He wants to give them equally among his 4 sons. How many gold coins will each son get?
10. A commander in the battlefield wants to divide his 12000 soldiers in 5 groups. If the numbers of soldiers are same in all groups then how many soldiers are there in each group?
11. A shoe company has earned tk. 2105000 by selling 975 pairs of shoes. How much money does each pair cost?
12. A car needs 45 liters of petrol to more 360 kilometers. How many kilometers can it go in 1L of petrol?

13. A farmer has earned tk. 136788 by selling paddy. If he earn those money by selling 1000 kgs of paddy. What will be the cost of 1 kg?
14. A man needs tk. 276000 for coating his roof. If the cost is tk. 48 per square feet. What will be the area of that roof?
15. Divide 5656558 by 5.

**Exercise-26**

1. There are 324 students are selected for a study tour. If they are planned to go by bus and each bus can carry 36 students, then how many bus will be needed for that study tour?
2. I have tk.1024. I want to buy some apple. If an apple cost tk. 32 then how many apples can I buy?
3. A teacher wants to distribute 1024. I want to buy some apple. If an apple costs tk.32 then how many chocolates does each students get?
4. A liquid soup companies daily production is 10000 ml. how many minipacks can they supply if each mini pack contains 50 ml of liquid soup?
5. Mr. Rahim has spent tk.15000 as Pocket money in a month. What amount does he need daily?
6. What will you get if you divide 2301 by 39?

7. There are 3250 mangoes. You have to divide those mangoes among 25 boys and 25 girls. If all the boys and girls get equal number of mangoes how many mangoes does each get?
8. I want to give you tk.7900 in tk 50 notes only. How many notes will I need?
9. Mr. Rahman has tk. 4500. If a box of BFC chicken fry costs tk.900 then how many boxes can Mr. Rahman buy?
10. A shoe company has sold 12530 pairs of shoes at tk.10024000. How much each pair of shoes cost?
11. A man has collected some coins of tk.5 for few months. All the coins make tk.11500. How many coins does he collect?
12. If you arrange 169 dolls in 13 rows how any dolls does each rows contain?
13. A company has to pay tk.289110 to them. If everyone get same amount of money. How much does each get?

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