

# **Division of Bigger Numbers**



### **Terms of Division**

Division means sharing or distributing a group of things in equal manner. Division is another name of repeated subtraction. The number being divided is known as dividend. The number by which another number is to be divided is known as divisor. Result of division is known as quotient. The number left over after division, is known remainder.

For Example: In  $54 \div 6 = 9,54$  is dividend, 6 is divisor, 9 is quotient and 0 is remainder.

$$54 \div 6 = 9 \times 6 +$$

Ountient Divisor

$$9 \times 6 + 0 = 54$$
Quotient Divisor Remainder Dividend

Quotient					
9					
<b>6</b> )	5	4			
_	5	4			
		0			
F	lem	ain	der		



Division is an equal distribution. Division is the inverse of multiplication.



# **Division by Short and Long Method**

### **Short Method** $30 \div 5$

$$30-5-5-5-5=0$$

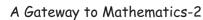
$$30 \div 5 = 6$$

#### **Long Method**

 $30 \div 5 = 6$ 

Quotient

		6	
5)	3	0	
_	3	0	
		0	
F	Rem	ain	der













### **Division with Remainder by short and Long Method**

#### **Short Method**

$$36 - 7 - 7 - 7 - 7 - 7 - 7 - 7 = 1$$

#### **Long Method**

	5		Quotient
7)	3	6	
_	3	5	
		1	Remainder



#### A. Express each of the following repeated subtraction as a division fact and fill in the blanks.

1. 
$$15-3-3-3-3=0$$

Dividend is

15

Quotient is



3. 
$$20-5-5-5-5=0$$

Divisor is

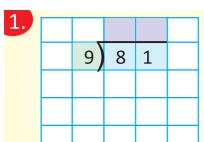


$$18 - 6 - 6 - 6 = 0$$

Dividend is



### B. Divide the following.





7)	5	6	

3.

	8)	7	2	











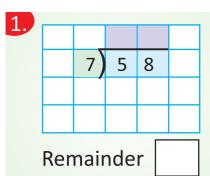


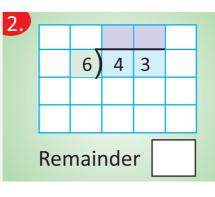


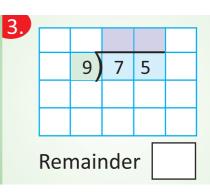




#### C. Divide and find remainder.









# **Division of 2-digit Number by 1-digit Number**

Example I: Divide 84by 4.

**Solution** 

: Divide 8 by 4, i.e.  $8 \div 4 = 2$ . Step 1

Write 2 in tens column and

in the result 8-8=0.

: Bring down the 4 and then Step 2

 $4 \div 4 = 1$ 

Write 1 in ones column and in

the result 4-4=0. The answer is 21.

Quotient

_			
	2	1	
4)	8	4	
_	8	<b>↓</b>	
	0	4	
	_	4	
		0	

# Division of 3-digit Number by 1-digit Number

**Example II**: Divide 975by 3.

**Solution** 

Step 1 : Divide 9 by 3, i.e.  $9 \div 3 = 3$ .

Write 3 in hundreds column

and in the result 9-9=0.

Divide 7 by 3, i.e.  $7 \div 3 = 2 \text{ ten}$ 

and 1 tens are left.

Quotient					
	_	3	2	5	
	3)	9	7	5	
	_	9	¥		
		0	7		
		_	6	<b>\</b>	
			1	5	
		_	1	5	
			0	0	



















Write 2 in the tens column and

change 1 tens into ones.

i.e. 1 tens = 10 ones.

10 ones + 5 ones = 15 ones

Bringing down 15 ones,  $15 \div 3 = 5$ .

Write 5 in ones column and in the result 15-15=0.

The answer is 325.



### **Division with Remainder**

**Example III:** Divide 86 by 6.

**Solution** 

:  $8 \div 6 = 1$  and 2 tens are left. Step 1

Write 1 in tens column and in the

result 8-6=2.

: Now change 2 tens into 20 ones. Step 2

i.e. 20 ones + 6 ones = 26 ones.

Bring down 26 and 26  $\div$  6 = 4 and 2 left as remainder.

**Example IV**: Chetan has 63 pencils. He wants to distribute them

equally among 3 children. How many pencils will each

child get?

**Solution** 

: Divide 6 by 3 i.e.  $6 \div 3 = 2$ Step 1

Write 2 in tens column and

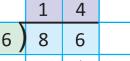
in the result 6-6=0

: Bring down the 3 and then 3÷3=1 Step 2

Write 1 in ones column and in the

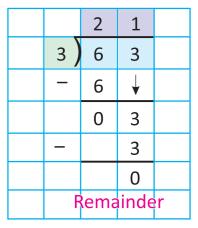
result 3-3=0

The answer is 21.



Quotient

	О	*	
	2	6	
_	2	4	













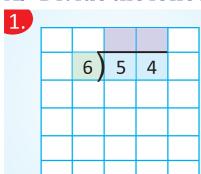


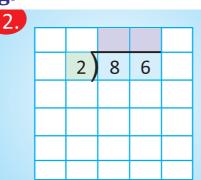


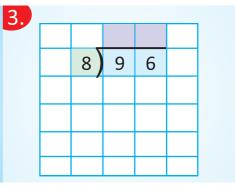




A. Divide the following.

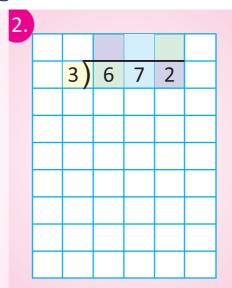


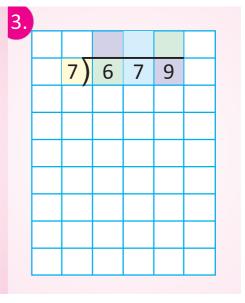




B. Solve the following.

1.					
	5)	5	2	5	

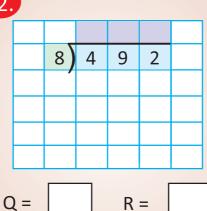




C. Divide and find quotient and remainder in each case.

7 1 Q=

R =
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Q =	
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4)	2	7	8	

Q =   R =
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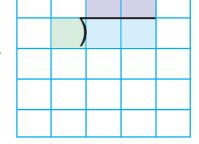






1. A shopkeeper arranged 40 sweets in 8 plates. How many sweets did he put into each plate?

Answer: ..... sweets



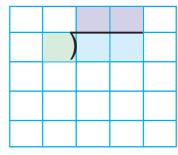
2. Divide 54 balls among 6 boys equally. How many will each boy get?

Answer: ..... balls

3. Suman has 81 pencils. He distributes these pencils equally among 9 children. How many pencils shall each get?

Answer: pencils

4. Mohit bought 84 oranges. He gave 6 oranges to each girl. How many girls got oranges?



Answer: ..... girls

## Points to Remember

- \* The number being divided is known as dividend.
- ❖ The number by which another number is to be divided is known as divisor.
- \* Result of division is known as quotient.
- \* The number left over after division, is known as remainder.
- Division is the inverse of multiplication.







### A. Multiple Choice Questions (MCQs)

Tick (✓	) the correct option
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1. $\ln 645 \div 5 = 129, 129 \text{ is}$	
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- (i) divisor (ii) quotient
- (iii) dividend (iv) remainder
- 2. The number being divided, is known as ......
  - (i) dividend

(ii) division

(iii) remainder

- (iv) none of these
- 3. If 51 chocolates are distributed in 3 boys, how many chocolates will each boy get?
  - (i) 17

(ii) 3

(iii) 51

- (iv) 16
- 4. One fourth part of 20 is .....
  - (i) 8

(ii) 5

(iii) 4

(iv) 20

#### B. Divide and find the remainder.

- 1. 7 86
- 2. 5 66
- 3. 6 667
- 4. 4 246

#### C. Solve the following word problems.

- 1. The mother has 90 toys. She wants to distribute them among 6 children. How many toys will each child get?
- 2. There are 7 days in a week. How many weeks are there in a year of 365 days?
- 3. 9 students can sit in a mini van. How many mini vans, will be required for 486 students?
- 4. There are 12 birds in a row. How many rows will be there for 144 birds?











Divide 216 by 6 and check this relation:
divisor x quotient + remainder = dividend.

Is it correct?





**Objective** : Pluck all the apples and divide equally among all the boys.

Materials Required : Paper and pencil

#### **Activities:**

Pluck all the apples and write.
Number of apples = .....

❖ Count number of boys and write. Number of boys = .....

Divide number of apples by the number of boys.

..... ÷ ..... = .....

So, each boy will get ..... apples.

