ODM PUBLIC SCHOOL

SESSION	**: 2**
CLASS	**: V**
SUBJECT	**: MATHEMATICS**
CHAPTER NUMBER	**: 5**
CHAPTER NAME	**: OPERATIONS ON LARGER NUMBERS**
SUBTOPIC	**: Long division**
	Exercise - 5 C Q.No 2

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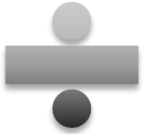
LEARNING OBJECTIVE

Students will be able to do the division using long division method.

DIVISION OF LARGE NUMBERS



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SYMBOL OF HUMAN EXCELLENCE

Long Division

- Long division is as simple as memorizing the people in this family.

Dad

Mom

Sister

Brother

Rover

Long Division

- Each person represents a step in the long division process.

Dad

1. Divide

Mom

2. Multiply

Sister

3. Subtract

Brother

4. Bring down

Rover

5. Repeat or Remainder

Step 1 in Long Division

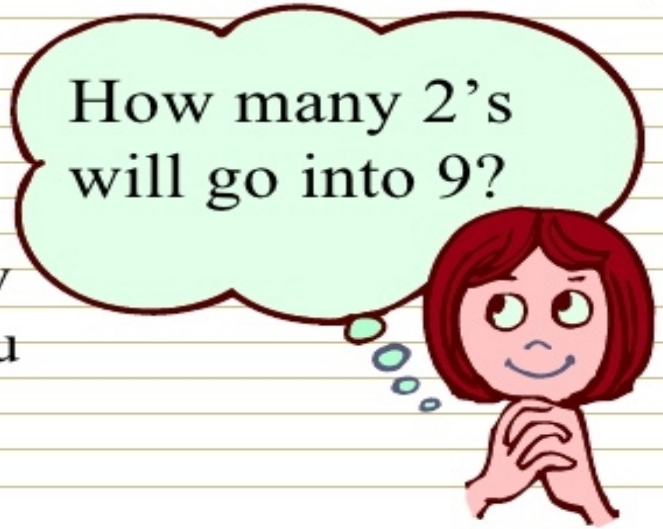
Dad

1. Divide

$$2\overline{)947}$$

4

- Divide 2 into first number in the dividend.
- Think how many 2's will fit into 9.
- Write that number directly above the number you divided into.



Step 2 in Long Division

Mom

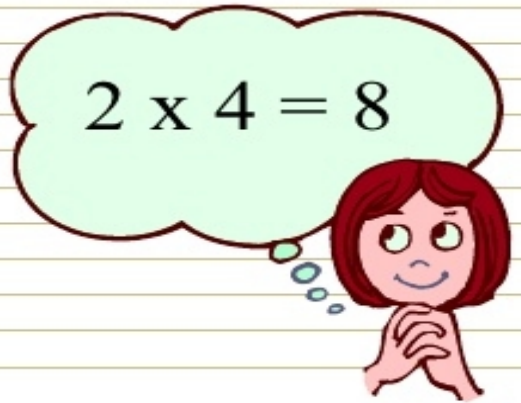
2. Multiply

$$2\overline{)947}$$

4

8

- Multiply the divisor times the first number in the quotient.
- Write your answer directly under the 9 or the number you just divided into.



Step 3 in Long Division

3. Subtract

Sister

$$\begin{array}{r} 4 \\ 2\overline{)947} \\ -8 \\ \hline 1 \end{array}$$

- Draw a line under the 8.
- Write a subtraction sign next to the 8.
- Subtract 8 from 9.
- Write your answer directly below the 8.

Step 4 in Long Division

4. Bring down

Brother

$$\begin{array}{r} 4 \\ 2\overline{)94\,7} \\ -8\downarrow \\ \hline 14 \end{array}$$

- Go to the next number in the dividend to the right of the 9.
- Write an arrow under the 4.
- Bring the 4 down next to the 1.

Step 5 in Long Division

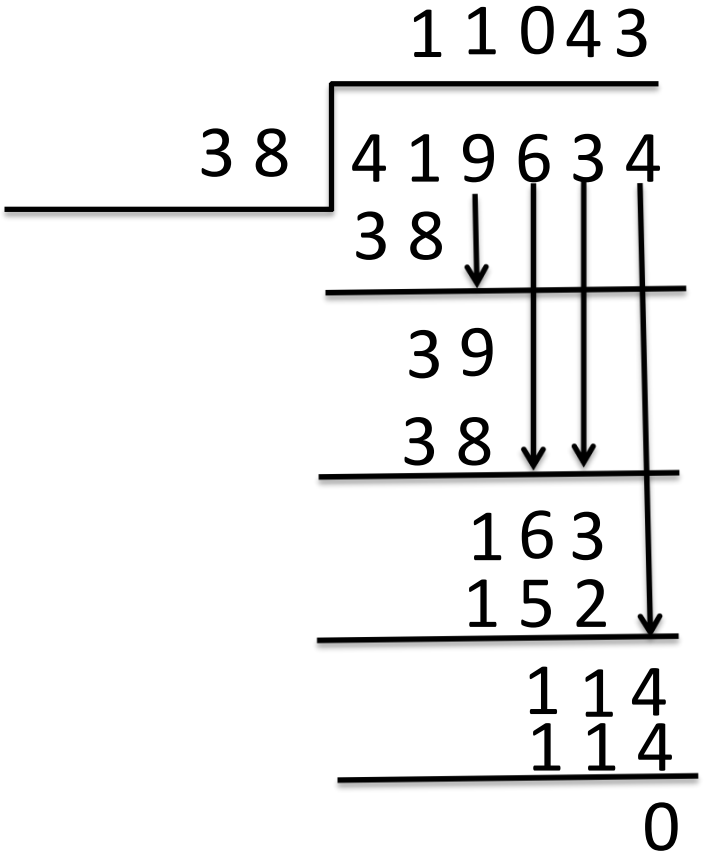
Rover

5. Repeat or Remainder

$$\begin{array}{r} 4 \\ 2\overline{)947} \\ -8\downarrow \\ \hline 14 \end{array}$$

- This is where you decide whether you repeat the 5 steps of division.
- If your divisor can divide into your new number, 14, or if you have numbers in the dividend that have not been brought down, you repeat the 5 steps of division.

EXAMPLE-1 419634 ÷ 38

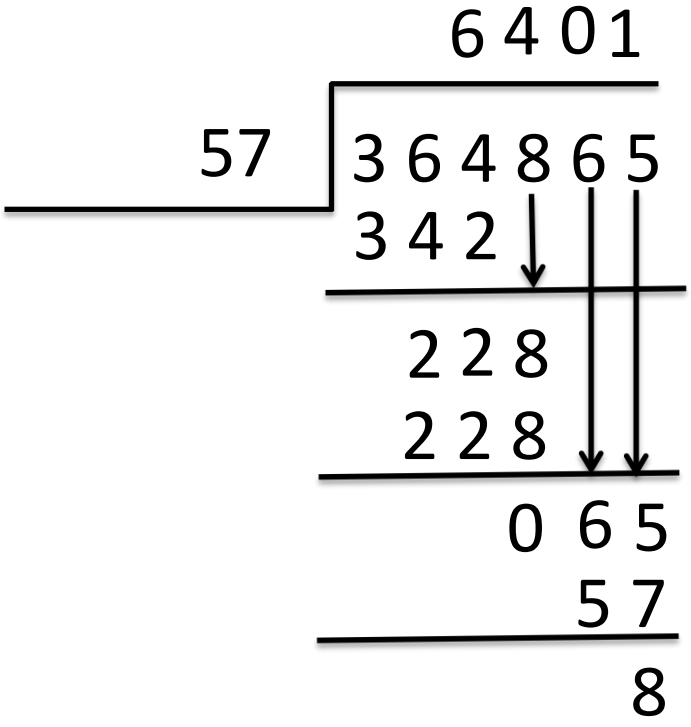


Ans:

Quotient = 11043

Remainder=0

EXAMPLE-2 364865 ÷ 57

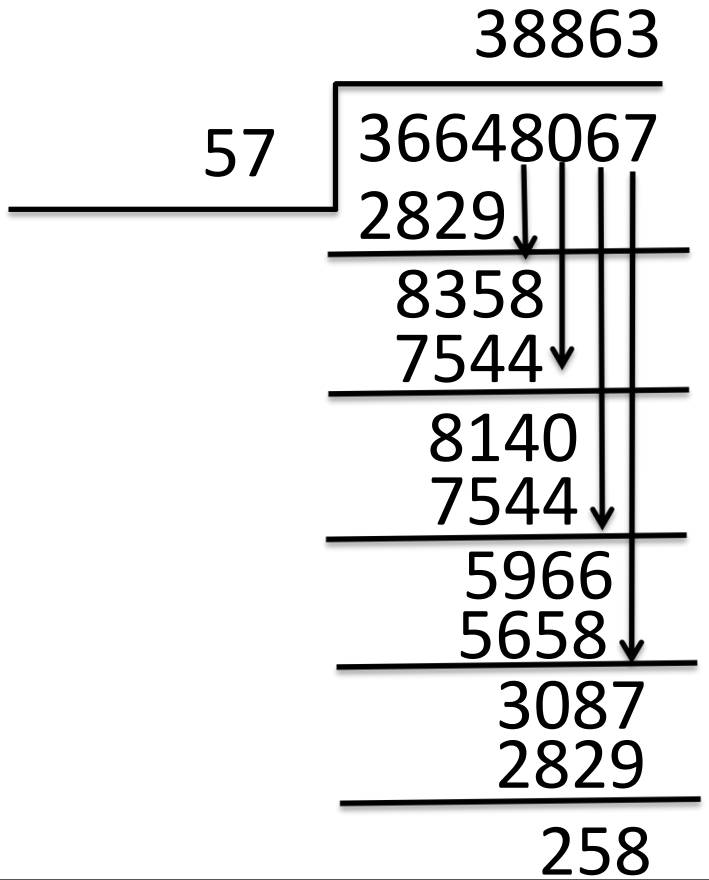


Ans:

Quotient = 6401

Remainder= 8

EXAMPLE-3 36648067 ÷ 943



Ans:

Quotient = 38863

Remainder= 258

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EXERCISE 5 (C)

2. Divide and find the quotient and the remainder. Check your answer using the relationship: Dividend = Divisor × Quotient + Remainder

a) 62643 ÷ 56 =

Ans:
Quotient = 1118
Remainder = 35

Checking :

Divisor × Quotient + Remainder
= 56 × 1118 + 35 = 62643 = Dividend

EXERCISE 5 (C)

2. Divide and find the quotient and the remainder. Check your answer using the relationship: Dividend = Divisor × Quotient + Remainder

b) 342616 ÷ 47

= Ans:

Quotient = 7289

Remainder = 33

Checking :

Quotient × Divisor + Remainder

= 7289 × 47 + 33 = 342616 = Dividend

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EXERCISE 5 (C)

2. Divide and find the quotient and the remainder. Check your answer using the relationship: Dividend = Divisor × Quotient + Remainder

c) 5177365 ÷ 63 =

Ans:
Quotient = 82180
Remainder = 25

Checking :

Quotient × Divisor + Remainder
= 82180 × 63 + 25 = 5177365 = Dividend

EXERCISE 5 (C)

2. Divide and find the quotient and the remainder. Check your answer using the relationship: Dividend = Divisor × Quotient + Remainder

d) 4810348 ÷ 75 =

Ans:
Quotient = 64137
Remainder = 73

Checking :

Quotient × Divisor + Remainder
= 64137 × 75 + 73 = 4810348 = Dividend

EXERCISE 5 (C)

2. Divide and find the quotient and the remainder. Check your answer using the relationship: Dividend = Divisor × Quotient + Remainder

e) 51693 ÷ 483 =

Ans:
Quotient = 107
Remainder = 12

Checking :

Quotient × Divisor + Remainder
= 107 × 483 + 12 = 51693 = Dividend

EXERCISE 5 (C)

2. Divide and find the quotient and the remainder. Check your answer using the relationship: Dividend = Divisor × Quotient + Remainder

f) 68085 ÷ 583 =

Ans:
Quotient = 116
Remainder = 457

Checking :

Quotient × Divisor + Remainder
= 116 × 583 + 457 = 68085 = Dividend

LEARNING OUTCOME

Students can be able to do the division using long division method.

HOME WORK

Complete exercise - 5 C Q.No. 2 in the notebook.

THANKING YOU

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