

Sub:Maths class-6 Topic- properties of division of Whole numbers .

Do all questions of Ex-2.5,one of each type is done for you.

EXERCISE 2.5

Use Cordova Smart Class Software on the smart board in class to do Exercise.

- Divide and check the quotient :
 - $92619 \div 123$
 - $612846 \div 582$
 - $75808 \div 103$
 - $607920 \div 816$
 - $1245616 \div 2032$
 - $30400 \div 64$
- Find the greatest 7-digit number which is exactly divisible by the greatest 3-digit number.
- Write the greatest 4-digit number that is exactly divisible by 42.
- 246 apples can be packed in a carton. How many cartons are required to pack 2755200 apples?
- "Division does not distribute over addition." Give an example to justify the statement.
- Find the number which when divided by 32 gives 26 as the quotient and 4 as the remainder.
- Find the number which when divided by 57 gives 39 as the quotient and 7 as the remainder.
- The product of two numbers is 56088. If one number is 123, what is the other number?
- On dividing 62345 by 199, the remainder is 58. Find the quotient.
- On dividing 34567 by 92, the remainder is 67. Find the quotient.

----- IN WHOLE NUMBERS -----

CLASS-6
WHOLE NUMBERS (Ch-2)
Exercise-2.5

P. DIVISION:-

1. Divide and check the quotient:

(ii) $92619 \div 123$

Sol. =

$$\begin{array}{r}
 753 \\
 123 \overline{) 92619} \\
 \underline{-861} \\
 651 \\
 \underline{-615} \\
 369 \\
 \underline{-369} \\
 0
 \end{array}$$

$Q = 753$
 $R = 0$
 Divisor = 123
 Div. = 92619

CHECK:

$$\begin{aligned}
 753 \times 123 &= 753 \times (100 + 20 + 3) \\
 &= (753 \times 100) + (753 \times 20) + (753 \times 3) \\
 &\quad \text{(Distributive law of multi-} \\
 &\quad \text{plication over Addition)} \\
 &= 75300 + 15060 + 2259 \\
 &= 92619
 \end{aligned}$$

2. Ans:

greatest 7-digit number
= 9999999
greatest 3-digit number
= 999.

$$\begin{array}{r}
 10010 \\
 999 \overline{) 9999999} \\
 \underline{-999} \\
 000999 \\
 \underline{-999} \\
 09 \\
 \underline{-0} \\
 9
 \end{array}$$

(The greatest 7-digit no. exactly divisible by greatest 3-digit no. is $9999999 - 9$
= 9999990 Ans.)

Ex. 2.5

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So "Division does not distribute over addition."
Ans. give an example to justify the statement.
Ans. Let us take

$$\begin{aligned} & 30 \div 5 \\ &= 30 \div (3+2) \\ &= (30 \div 3) + (30 \div 2) \\ &= 10 + 15 \\ &= 25 \end{aligned}$$

$$\text{Thus } (30 \div 5) \neq (30 \div 3) + (30 \div 2) \\ 6 \neq 25$$

90 On dividing 62345 by 199, the remainder is 58. Find the quotient.

Ans:

$$\text{Dividend} = 62345$$

$$R = 58, \quad \text{Divisor} = 199$$

$$\text{Dividend} = \text{Quotient} \times \text{Divisor} + \text{Remainder}$$

$$62345 = Q \times 199 + 58$$

$$\text{or } Q \times 199 = 62345 - 58 \\ = 62287$$

$$\text{Quotient} = 62287$$

$$\begin{array}{r} 313 \\ 199 \overline{) 62287} \\ \underline{-597} \\ 258 \\ \underline{199} \\ 597 \\ \underline{597} \\ 0 \end{array}$$

$$\begin{aligned} \text{Quotient} \\ &= 313 \\ \text{Ans.} \end{aligned}$$

Teacher's Signature.....

