

Ch 7 - Raksha Bandhan

Keywords

Multiplication

Product
Times
Of
Groups of
Factor
Multiplied by
Increased by
Twice
Thrice
Double
Triple

Division

Share
Between
Equal parts
How many in each
Distribute
Half
Quotient of
Divided by

Properties of Multiplication :

Multiplication is a repeated addition.

Eg - $5 \times 4 = 20$
 $4 + 4 + 4 + 4 + 4 = 20$

The result of multiplying 2 or more numbers gives the product.

3. The product of a number and 1 is the number itself. eg $14 \times 1 = 14$

4. Product of a number and 0 is 0.
eg: $12 \times 0 = 0$

5)

13	—	Multiplicand
<u>x 7</u>	—	Multiplier
91	—	Product

② Write in addition form:

a) 6×5
 $= 5 + 5 + 5 + 5 + 5 + 5$
 $= 30$

b) 5×8
 $= 8 + 8 + 8 + 8 + 8$
 $= 40$

③ How many times ?

a) $7 + 7 + 7 + 7$
 $= 4 \text{ times } 7$
 $= 4 \times 7$
 $= 28$

b) $11 + 11 + 11 + 11 + 11$
 $= 5 \text{ times } 11$
 $= 5 \times 11$
 $= 55$

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Worksheet

- 1) $14 \times 8 =$ _____
- 2) $2649 \times$ _____ $= 0$
- 3) $4 + 4 + 4 + 4 + 4 =$ _____ $\times$ _____ $= 20$
- 4) Find the product of the smallest 2-digit and greatest 2-digit number. _____
- 5) Put the correct sign $>$, $<$ or $=$
 $1084 + 0$ 1084×0
- 6) There are 7 cats and 4 birds in the garden. How many legs do they have? _____
- 7) Bunny has 5 books. Each book has 21 pages. Find out the total number of pages. _____

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Multiply

a)

$$32 \times 24$$

$$\begin{array}{r} 32 \\ \times 24 \\ \hline 128 \\ + 640 \\ \hline 768 \end{array}$$

b) 74×16

$$\begin{array}{r} 74 \\ \times 16 \\ \hline 444 \\ 740 \\ \hline 1184 \end{array}$$

c) 640×28

$$\begin{array}{r} 640 \\ \times 28 \\ \hline 5120 \\ 12800 \\ \hline 17920 \end{array}$$

Multiply using expanded form

a)

$$27 \times 5$$

$$27 = 20 + 7$$

$$20 \times 5 = 100$$

$$\begin{array}{r} 7 \times 5 = +35 \\ \hline 135 \end{array}$$

$$\therefore 27 \times 5 = 135$$

b) 63×3

$$63 = 60 + 3$$

$$60 \times 3 = 180$$

$$\begin{array}{r} 3 \times 3 = +9 \\ \hline 189 \end{array}$$

$$\therefore 63 \times 3 = 189$$

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Multiplication Facts

• Write any 3 multiplication facts of :

a) 12

b) 45

$$12 \times 1 = 12$$

$$45 \times 1 = 45$$

$$1 \times 12 = 12$$

$$1 \times 45 = 45$$

$$3 \times 4 = 12$$

$$15 \times 3 = 45$$

$$4 \times 3 = 12$$

$$3 \times 15 = 45$$

$$6 \times 2 = 12$$

$$5 \times 9 = 45$$

$$2 \times 6 = 12$$

$$9 \times 5 = 45$$

Worksheet

1) $12 \times \underline{\quad} = 4 \times \underline{\quad} = 48$

2) 5 thousands $\times$ 7 tens = $\underline{\quad}$

3) $27 \times 10 = \underline{\quad}$

4) Triple of 57 = $\underline{\quad}$

5) Multiply using expanded form: 68×9

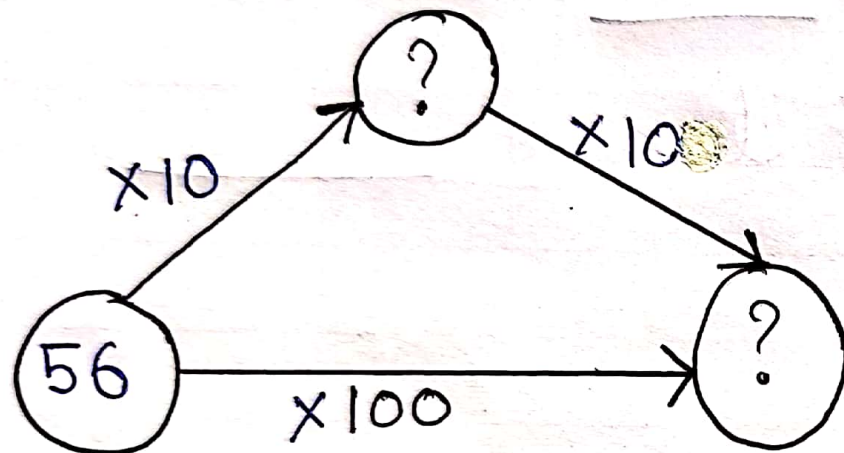
6) Multiply 81×29

7) Write any 3 multiplication facts of 18.

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Find the missing number.

a)



b)

50	$\times$	10	=	?
+				+
?	$\times$	10	=	40
=				=
?	$\times$	10	=	?

Worksheet

- 1) Mrinmay bought 6 packet of barfi. Each packet has 65 barfi. How many barfi did he buy? _____
- 2) Find the sum of 12×5 and its half.
- 3) What is 74 more than 6×9 ?
- 4) Multiply the largest 3-digit number by 16.
- 5) Which number gives the product 96 when multiplied by 8?

Division

- Division means equal sharing.

$$\begin{array}{r}
 \rightarrow 34 \div 4 \\
 \text{Divisor} \leftarrow 4 \quad \uparrow \text{Dividend} \\
 \begin{array}{r}
 4 \overline{) 34} \\
 \underline{-32} \\
 2
 \end{array}
 \quad \begin{array}{l}
 (8 \rightarrow \text{Quotient} \\
 2 \rightarrow \text{Remainder}
 \end{array}
 \end{array}$$

- When a number is divided by 1, the quotient is the number itself.
Eg - $42 \div 1 = 42$

- When a number is divided by itself, the quotient is 1. Eg - $45 \div 45 = 1$

- When 0 is divided by any number, the quotient is 0. Eg - $0 \div 26 = 0$

- It is not possible to divide any number by 0.
Eg - $12 \div 0 = \text{Undefined}$

- Division is a repeated subtraction.

1) Divide using repeated subtraction method :

a) $18 \div 3 = \underline{6}$

b) $45 \div 9 = \underline{5}$

→ $18 - 3 = 15$

$45 - 9 = 36$

$15 - 3 = 12$

$36 - 9 = 27$

$12 - 3 = 9$

$27 - 9 = 18$

$9 - 3 = 6$

$18 - 9 = 9$

$6 - 3 = 3$

$9 - 9 = 0$

$3 - 3 = 0$

2) Write the division facts :

a) $10 \times 2 = 20$

b) $3 \times 7 = 21$

$20 \div 10 = 2$

$21 \div 7 = 3$

$20 \div 2 = 10$

$21 \div 3 = 7$

3) Write the multiplication facts :

a) $30 \div 6 = 5$

b) $42 \div 7 = 6$

$6 \times 5 = 30$

$6 \times 7 = 42$

$5 \times 6 = 30$

$7 \times 6 = 42$

• We can check division by using the formula →

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

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Divide :

a) 14 by 7

$$\begin{array}{r} 7 \overline{) 14} \quad 2 \\ -14 \\ \hline 0 \end{array}$$

b) $17 \div 2$

$$\begin{array}{r} 2 \overline{) 17} \quad 8 \\ -16 \\ \hline 1 \end{array}$$

Check :

Divisor $\times$ Quotient + Remainder

a)

$$\begin{array}{rclcl} 7 & \times & 2 & + & 0 \\ = & 14 & + & 0 & \\ & = & 14 & & \end{array}$$

b)

$$\begin{array}{rclcl} 2 & \times & 8 & + & 1 \\ = & 16 & + & 1 & \\ & = & 17 & & \end{array}$$

Long Division Method

i) Divide 84 by 4

$$\begin{array}{r} 4 \overline{) 84} \quad 21 \\ -8 \\ \hline 4 \\ -4 \\ \hline 0 \end{array}$$

$$\begin{array}{l} \text{Dividend} - 84 \\ \text{Divisor} - 4 \\ \text{Q} - 21 \\ \text{R} - 0 \end{array}$$

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2)

Divide 684 by 6

$$\begin{array}{r}
 6 \overline{) 684} \quad (114 \\
 \underline{-6} \\
 08 \\
 \underline{-6} \\
 24 \\
 \underline{-24} \\
 0 \\
 \hline
 \end{array}$$

$$\text{Dividend} = 684$$

$$\text{Divisor} = 6$$

$$Q = 114$$

$$R = 0$$

3)

Divide 174 by 5

$$\begin{array}{r}
 5 \overline{) 174} \quad (34 \\
 \underline{-15} \\
 24 \\
 \underline{-20} \\
 4 \\
 \hline
 \end{array}$$

$$\text{Dividend} = 174$$

$$\text{Divisor} = 5$$

$$Q = 34$$

$$R = 4$$

Check: $5 \times 34 + 4$

$$= 170 + 4$$

$$= 174$$