



Synopsis

Multiplication:

- ◆ Multiplication is the same as repeated addition. \times is the symbol for multiplication.
- ◆ The number to be multiplied is called the MULTIPLICAND.
- ◆ The number by which we multiply is called the MULTIPLIER.
- ◆ The answer is called the PRODUCT.

e.g.,	24	\times	3	=	72
	↓		↓		↓
	Multiplicand		Multiplier		Product

Note: The product of a number and zero is zero.
 The product of a number and 1 is the number itself.
 Even if the order of the numbers to be multiplied is changed, the product remains the same.

1. Multiplication of a 1 – digit number by another 1 – digit number:

e.g., $3 \times 9 = 27$

Multiply the numbers and write the product.

2. Multiplication of a 2 – digit number by 1 – digit number:

e.g., 1: Multiply 98 by 3.

First multiply **ones** and then multiply **tens**. Regroup the product if needed.

Step – 1: Multiply 8 ones by 3.

$$8 \text{ ones} \times 3 = 24 \text{ ones} = 2 \text{ tens} + 4 \text{ ones}$$

Write 4 in the ones place.

Carry 2 tens to the tens place.

Step – 2: Multiply 9 tens by 3.

$$9 \text{ tens} \times 3 = 27 \text{ tens}$$

$$= 20 \text{ tens} + 7 \text{ tens}$$

$$= 2 \text{ hundreds} + 7 \text{ tens}$$

②	T	O
	9	8
	\times	3
		4

T	O
9	8
\times	3
2	94

O3 : Multiplication

Add the carried 2 tens to 7 tens. So, 7 tens + 2 tens = 9 tens.

Write 9 in the tens place. Write 2 in hundreds place.

3. Multiplication of a 2 - digit number by another 2–digit number:

e.g., Multiply 36 by 25.

Step – 1: First multiply ones.

$$6 \times 5 = \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 3 & 0 \\ \hline \end{array}$$

Write 0 in the ones place and carry 3 tens to the tens place.

Step – 2: Multiply the digit in **tens** place of the multiplicand by the **ones** digit of the multiplier. $3 \times 5 = 15$.

Now add the 3 carried from the product of ones to 15, which gives $15 + 3 = 18$. Write 18 beside 0 in the product.

Step – 3: Now place a 0 below 0 in the product 180.

$$\begin{array}{r} \textcircled{3} \\ \text{T O} \\ 36 \\ \times 25 \\ \hline 180 \end{array}$$

Multiply the digit 6 in **ones** place of the multiplicand by the digit 2 in **tens** place of multiplier. $6 \times 2 = 12$

Write 2 below 8 in the product and carry 1 ten to the tens place.

$$\begin{array}{r} \textcircled{1} \\ \text{T O} \\ 36 \\ \times 25 \\ \hline 180 \\ 20 \end{array}$$

Step – 4: Multiply 3 in the **tens** place by 2 in the tens place of the multiplier.

$3 \times 2 = 6$. Add the 1 carried from previous product to get $6 + 1 = 7$. Now, write 7 below 1 in 180.

$$\begin{array}{r} \text{T O} \\ 36 \\ \times 25 \\ \hline 180 \\ + 720 \\ \hline 900 \end{array}$$

Now add the products and write the sum which is the required product of the two given numbers.

$$\therefore 36 \times 25 = 900$$

Multiple Choice Questions

[Each question has only one correct option]

03 : Multiplication

- 01** If both equations given are true, which of the following equations must also be true ?

$$\begin{array}{l} \square - \circ = 6 \\ \circ + \circ = 2 \end{array}$$

- (A) $\square \times \circ = \square$
 (B) $\circ \times 2 = \circ$
 (C) $\square + \square = 12$
 (D) $\square + \circ = \square$
- 02** Rajani's family eats 4 to 6 apples every day. What is the reasonable number of days that it will take Rajani's family to eat 20 apples ?
- (A) More than 10 days
 (B) Between 6 and 10 days
 (C) Between 3 and 6 days
 (D) Less than 3 days
- 03** If $\bigcirc \times 8 = 96$, what is the value of \bigcirc ?
- (A) 12 (B) 88 (C) 104 (D) 9
- 04** $7 + 7 + 7 + 7 + 7 + 7 = \text{Ⓢ} \times 7$. What is the value of Ⓢ ?
- (A) 1 (B) 5 (C) 6 (D) 7
- 05** $17 \times 5 = (10 \times 5) + (\text{Ⓢ} \times 5)$. Find the value of Ⓢ .
- (A) 1 (B) 3 (C) 5 (D) 7
- 06** In the multiplication example shown, find the value of A.

$$\begin{array}{r} \text{A} \quad 3 \\ \times \quad 5 \\ \hline 215 \end{array}$$

- (A) 1 (B) 2 (C) 3 (D) 4

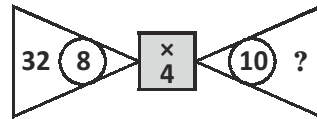
- 07** Write a multiplication sentence for the following figures.



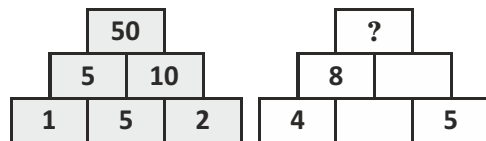
- (A) $3 \times 7 = 21$ (B) $7 + 3 = 10$
 (C) $7 \times 10 = 70$ (D) $3 + 3 + 3 = 9$
- 08** Find missing number.



- (A) 30 (B) 32 (C) 34 (D) 38
- 09** 3×4 is ? more than 2×4 . Which number is missing ?
- (A) 2 (B) 3 (C) 6 (D) 4
- 10** Find the missing number in the following figure.



- (A) 40 (B) 14 (C) 80 (D) 4
- 11** An art teacher bought 8 boxes of crayons. There were 10 crayons in each box. How many crayons did she buy altogether ?
- (A) 10 (B) 20 (C) 40 (D) 80
- 12** Find the number which replaces the question mark, by applying the same rule as that given in the example.




- (A) 160 (B) 80 (C) 56 (D) 8

Multiple Choice Questions

[Each question has only one correct option]

O3 : Multiplication

- 13** $2 \times 10 = 4 \times \underline{\quad}$. Which number should fill the blank ?
 (A) 5 (B) 8 (C) 10 (D) 4
- 14** There are 2 buttons on each shirt. How many buttons are there on 6 shirts ?
 (A) 2 (B) 6 (C) 24 (D) 12
- 15** Each table has 4 legs. How many legs do 5 tables have ?
 (A) 4 (B) 5 (C) 10 (D) 20
- 16** An ant has 6 legs.
 1 pair of legs = 2 legs
 How many pairs of legs do 7 ants have?
 (A) 21 (B) 42 (C) 7 (D) 3
- 17** Mrs. Raj sewed 4 skirts for her daughters. She sew 2 red buttons on each skirt. She sew 2 more pink buttons than red buttons. How many buttons did she sew altogether ?
 (A) 8 (B) 24 (C) 16 (D) 32
- 18** Sruthi bought 8 packets of sweets. Each packet contained 5 sweets. She gave her brother 2 packets of sweets and ate 3 sweets. How many sweets are remaining with her ?
 (A) 30 (B) 34 (C) 35 (D) 27
- 19** Mother ordered 3 trays of eggs. Each tray contained 10 eggs. 4 eggs were rotten and 13 were cracked. How many good eggs were there ?
 (A) 17 (B) 23 (C) 13 (D) 26
- 20** 57×4 is the same as which of the following?
 (A) $50 + 7 + 4$ (B) $200 + 280$
 (C) 5×74 (D) 4×57
- 21** There are 21 boys and 18 girls in each class. How many pupils are there in 5 classes ?
 (A) 378 (B) 105
 (C) 90 (D) 195
- 22** A T-shirt costs ₹ 29. What is the cost of 5 such T-shirts ?
 (A) ₹ 34 (B) ₹ 43
 (C) ₹ 140 (D) ₹ 145
- 23** $32 \times 5 = \underline{\quad}$ tens. Which number should fill the blank ?
 (A) 6 (B) 16 (C) 60 (D) 160
- 24** What does  stand for ?
 $\text{☆} + \text{☆} = 100$
 $\text{☆} \times \text{Cuboid} = 100$
 (A) 1 (B) 2 (C) 3 (D) 50
- 25** Which number is 2 tens 8 ones more than 13×4 ?
 (A) 24 (B) 52 (C) 70 (D) 80
- 26** $\text{☀} + \text{☆} = 200$
 If ☆ is three times ☀ , find the difference between ☆ and ☀ .
 (A) 50 (B) 100 (C) 25 (D) 125
- 27** $\text{?} \times 3 = 3 + 3 + 3 + 3 + 9$. What is the missing number in the box ?
 (A) 3 (B) 5 (C) 6 (D) 7

Multiple Choice Questions

[Each question has only one correct option]

03 : Multiplication

- 28 X and Y are two different single - digit numbers in the given multiplication problem.

$$\begin{array}{r} X \\ \times Y \\ \hline 3X \end{array}$$

What is the value of $X + Y$?

- (A) 14 (B) 10 (C) 35 (D) 12
- 29 Which of the following is 7 fours ?
- (A) 26 (B) 7×4
(C) $4 + 4 + 4 + 4$ (D) $7 + 4$
- 30 Find the missing number.

$$4 \times 8 = 2 \times (?) + 16$$

- (A) 16 (B) 4 (C) 32 (D) 8
- 31 Look at the pattern given.

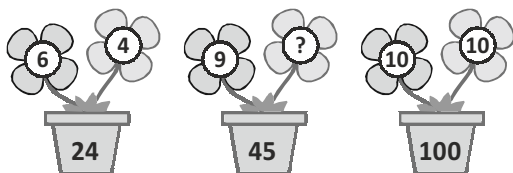


What is the missing number ?

- (A) 12 (B) 24 (C) 9 (D) 16
- 32 Find the values of 'p' and 'q'.

$$7 \times p = 4 \times q + 4$$

- (A) $p = 4$; $q = 6$ (B) $p = 6$; $q = 4$
(C) $p = 4$; $q = 4$ (D) $p = 6$; $q = 6$
- 33 Find the missing number.



- (A) 7 (B) 5 (C) 9 (D) 6

- 34 Which of the following is the same as 4 groups of 8 ?

- (A) 4 eights (B) $4 + 8$
(C) $8 \times 8 \times 8 \times 8$
(D) $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$

- 35 What is the product of 5 tens and 3 ?

- (A) 8 tens (B) 15 tens
(C) 80 tens (D) 150 tens

- 36 By how much is 5×3 more than $3 + 3 + 3$?

- (A) 5 (B) 6 (C) 9 (D) 3

- 37 What is 9×4 ?

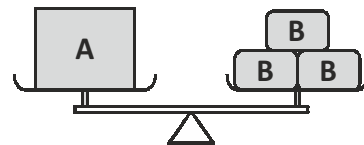
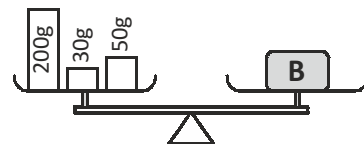
- (A) 3 groups of 4 + 6 groups of 4
(B) 4 groups of 3 + 4 groups of 4
(C) 3 groups of 6 + 4 groups of 6
(D) 4 groups of 6 + 6 groups of 4

- 38 What are the signs that replace (a) and (b) in order ?

$$100 \text{ (a) } 73 = 3 \text{ (b) } 9$$

- (A) $-$, $+$ (B) \times , $-$
(C) $-$, \times (D) $+$, \times

- 39 What is the mass of box A ?



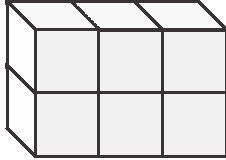
- (A) 1120 g (B) 280 g
(C) 840 g (D) 560 g

Previous Contest Questions

[Each question has only one correct option]

03 : Multiplication

- 40 What is the mass of the figure if each cube in it has a mass of 6 g ?



- (A) 24 g (B) 12 g
(C) 36 g (D) 48 g
- 41 Which of the following is correct ?
- (A) $8 \times 5 > 10 \times 4$
(B) $6 \times 8 > 4 \times 4$
(C) $7 \times 3 < 2 \times 5$
(D) $4 \times 6 > 3 \times 9$
- 42 How many times 6 is 36 ?
- (A) 6 (B) 18
(C) 9 (D) 4
- 43 7×9 is 39 more than which of the given numbers ?
- (A) 29 (B) 42
(C) 24 (D) 39
- 44 By how much is 10×2 less than 7×7 ?
- (A) 29 (B) 20
(C) 69 (D) 49
- 45 There are 9 bicycles in a cycle stand. How many wheels do the 9 bicycles have altogether ?
- (A) 27 (B) 9
(C) 18 (D) 4

- 46 A shopkeeper sells apples in bags of five. If he sold 8 bags, how many apples did he sell altogether ?

(A) 35 (B) 40
(C) 13 (D) 3

- 47 A frog has 4 legs and a chicken has 2 legs. How many legs do 3 frogs and 5 chickens have altogether ?

(A) 22 (B) 10
(C) 12 (D) 2

- 48 How many carrots are there in 3 rows of 10 carrots ?

(A) 13 (B) 7
(C) 30 (D) 20

- 49 There are 3 girls and 2 boys in a group. Each child has 3 notebooks. How many notebooks do they have altogether ?

(A) 3×3 (B) 5×5
(C) 5×3 (D) $5 + 3$

- 50 A lion eats 3 kg of meat a day. How much meat does it eat in a week ?

(A) 21 kg (B) 18 kg
(C) 10 kg (D) 24 kg

- 51 Which one of the statement below is false ?

(A) $4 \times 8 = 8 \times 4$
(B) $10 + 10 + 10 = 3 \times 10$
(C) $5 + 5 + 5 + 5 = 5 \times 4$
(D) 4×10 is less than 5×8