

# CLASS NOTES

Class: III

Topic: Chapter 9

Subject: Mathematics

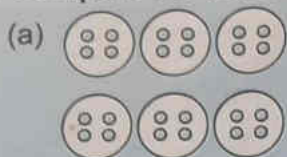
## HOW MANY TIMES?

Do these exercises in your Mathematics Workbook (Page no- 60 to 64)



## 9 HOW MANY TIMES? MULTIPLICATION AS REPEATED ADDITION

1. Compare the following.



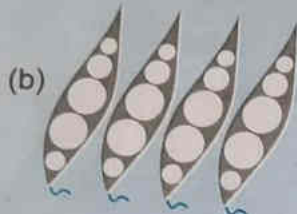
How many buttons?

How many holes altogether?

$$4 + 4 + 4 + 4 + 4 + 4 = 24$$

OR 6 times 4 is 24

$$6 \times 4 = 24$$

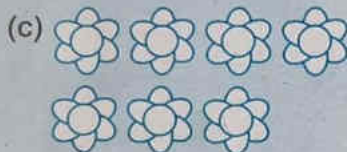


How many pea pods?

How many peas altogether?

$$5 + 5 + 5 + 5 = 20$$

$$4 \text{ times } 5 \text{ is } 20 \text{ OR } 4 \times 5 = 20$$



How many flowers?

How many petals altogether?

$$6 + 6 + 6 + 6 + 6 + 6 + 6 = 42$$

$$7 \text{ times } 6 \text{ is } 42 \text{ OR } 7 \times 6 = 42$$



How many bunches?

How many grapes altogether?

$$10 + 10 + 10 = 30$$

$$3 \text{ times } 10 \text{ is } 30 \text{ OR } 3 \times 10 = 30$$

2. Fill in the blanks using the relation between multiplication and repeated addition

(a) Rewrite using + sign

1.  $6 \times 5$  is 6 times 5 OR  $5 + 5 + 5 + 5 + 5 + 5$

2.  $8 \times 3$  is 8 times 3 OR  $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3$

3.  $5 \times 4$  is 5 times 4 OR  $4 + 4 + 4 + 4 + 4$

4.  $3 \times 9$  is 3 times 9 OR  $9 + 9 + 9$

5.  $2 \times 13$  is 2 times 13 OR  $13 + 13$



3. Write how many times.

Example :  $3 + 3 + 3 + 3 + 3 = 5 \times 3 = 15$

(a)  $9 + 9 + 9 + 9 + 9 + 9 = 6 \times 9 = 54$

(b)  $10 + 10 + 10 + 10 = 4 \times 10 = 40$

(c)  $8 + 8 + 8 + 8 + 8 + 8 + 8 = 7 \times 8 = 56$

(d)  $6 + 6 + 6 = 3 \times 6 = 18$

(e)  $7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 = 8 \times 7 = 56$

**STORY TIME !**

Solve the simple story problems.

1. There are 63 days in 9 weeks. (Hint : 1 week = 7 days)
2. There 72 months is 6 years. (Hint : 1 year = 12 months)
3. There are 60 bananas in 5 dozens. (Hint : 1 dozen = 12)
4. A box has 11 pen. There will be 110 pens in 10 boxes.
5. A garland has 20 flowers. 5 garlands will have 100 flowers.
6. A car has 4 wheels. So 12 cars have 48 wheels.
7. A book has 100 pages. 8 book have 800 pages.
8. There are 9 students at a party. Each child gets 8 sweets. The number of sweets distributed is 72.





# DODGING TABLES!



**BE QUICK!**

1. Find the product.

(a)  $7 \times 9 = 63$

(b)  $6 \times 7 = 42$

(c)  $4 \times 8 = 32$

(d)  $8 \times 6 = 48$

(e)  $7 \times 8 = 56$

(f)  $6 \times 5 = 30$

2. Write the missing factor.

(a)  $\underline{6} \times 4 = 24$

(b)  $\underline{9} \times 5 = 45$

(c)  $\underline{4} \times 9 = 36$

(d)  $\underline{8} \times 7 = 56$

(e)  $\underline{4} \times 8 = 32$

6.  $8 \times \underline{6} = 48$

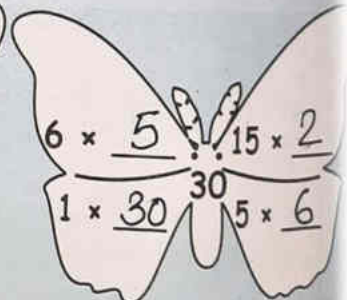
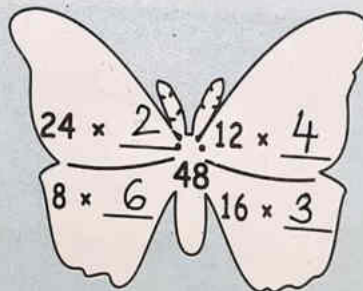
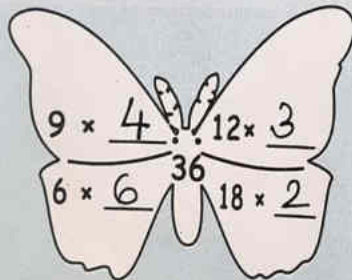
7.  $3 \times \underline{8} = 24$

8.  $6 \times \underline{7} = 42$

9.  $5 \times \underline{11} = 55$

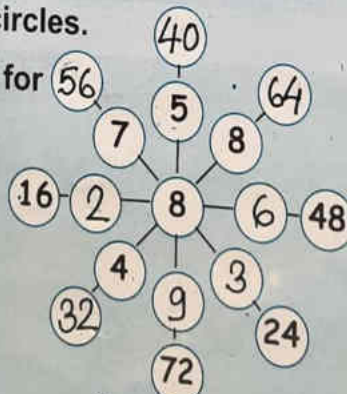
10.  $12 \times \underline{3} = 36$

3. Reach the centre product by multiplying.



4. Multiply and fill in the circles.

Outer most circles are for the products.



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5. Complete each flower table.

Flower 1: 54, 9=, 6=36, 42=7, 6x, 7=, 4=, 42, 24

Flower 2: 72, 8=, 7=6.3, 27=3, 9x, 11=4=, 99, 36

Flower 3: 28, 4=, 8=56, 63=9, 7x, 5=, 6=, 35, 42

Flower 4: 55, 5=, 8=88, 10, 11x, 6=, 9=, 66, 99

Flower 5: 108, 9=, 7=84, 60=5, 12x, 8=, 6=, 36, 72

6. Find the pattern and fill in the blanks.

(a) 16, 24, 32, 40, 48, 56, 64

(b) 14, 21, 28, 35, 42, 49, 56

(c) 18, 24, 30, 36, 42, 48, 54

(d) 27, 36, 45, 54, 63, 72, 81

7. Write all the products equal to the one given in the box, in the star.

(a)  $9 \times 8 = 72$      $12 \times 5 = 60$      $8 \times 9 = 72$

$9 \times 11 = 99$      $11 \times 9 = 99$      $12 \times 6 = 72$

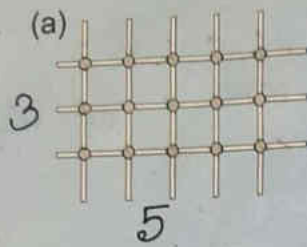
(b)  $6 \times 8 = 48$      $8 \times 7 = 56$      $4 \times 9 = 36$

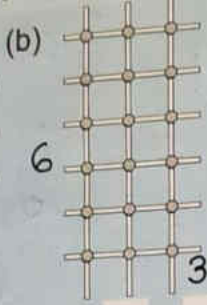
$7 \times 7 = 49$      $12 \times 4 = 48$      $6 \times 8 = 48$

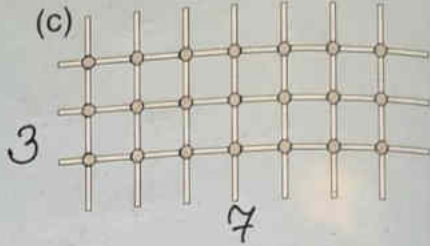


## FUN WITH STRAWS?

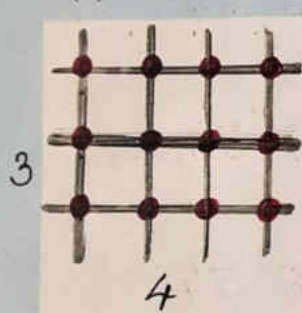
1. Look at the straw patterns and fill in the slants?

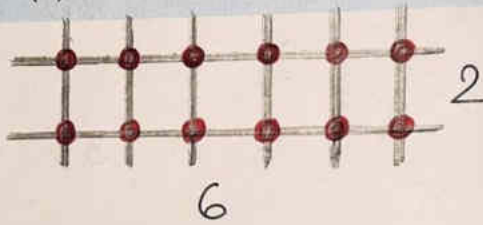
(a)   $3 \times 5 = 15$

(b)   $6 \times 3 = 18$

(c)   $3 \times 7 = 21$

2. Draw straw patterns for

(a)  $4 \times 3 = 12$    $3 \times 4 = 12$

(b)  $6 \times 2 = 12$    $2 \times 6 = 12$

## PATTERN FUN

1. Observe the following pairs carefully. Find the pattern and then fill in the blanks.

(a)  $6 \times 6 = 36$       (b)  $8 \times 8 = 64$       (c)  $7 \times 7 = 49$   
 $5 \times 7 = 35$        $7 \times 9 = 63$        $6 \times 8 = 48$

2. Fill in the blanks.

(a) If  $12 \times 12 = 144$  Then  $11 \times 13 = 143$

(b) If  $11 \times 11 = 121$  Then  $10 \times 12 = 120$

(c) If  $13 \times 13 = 169$  Then  $12 \times 14 = 168$

(d) If  $15 \times 15 = 225$  Then  $14 \times 16 = 224$