

# 11 and 12 Times Table

## Introduction

**Circle the incorrect multiplications below.**

$1 \times 9 = 9$

$10 \times 9 = 9$

$2 \times 2 = 4$

$3 \times 9 = 26$

$10 \times 6 = 66$

$2 \times 9 = 18$

$7 \times 9 = 63$

$10 \times 5 = 50$

$2 \times 7 = 15$

$10 \times 9 = 99$

$10 \times 3 = 30$

$2 \times 11 = 24$

# Answer

## Introduction

Circle the incorrect multiplications below.

$1 \times 9 = 9$

$10 \times 9 = 9$

$2 \times 2 = 4$

$3 \times 9 = 26$

$10 \times 6 = 66$

$2 \times 9 = 18$

$7 \times 9 = 63$

$10 \times 5 = 50$

$2 \times 7 = 15$

$10 \times 9 = 99$

$10 \times 3 = 30$

$2 \times 11 = 24$

Lets count in 11s

- Use the rhythm that we learnt in class
- 11, 22, 33, 44, 55, 66, 77, 88, 99, 110, 121, 132

- Let us count in 12s

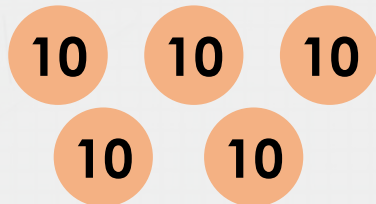
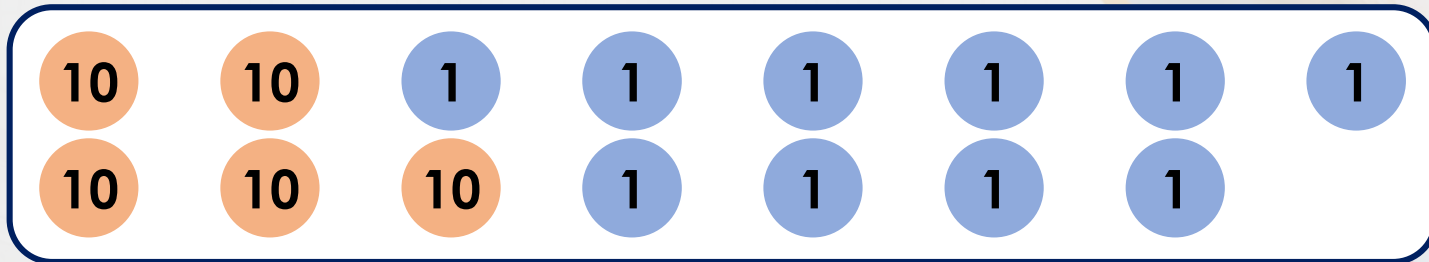
12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144

Use the rhythm that we learnt in class.

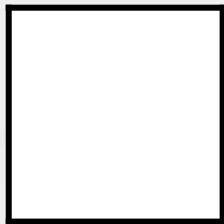
Can you notice any patterns?

## Varied Fluency 1

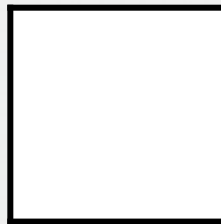
Complete  $5 \times 12$ , by partitioning it into tens and ones.



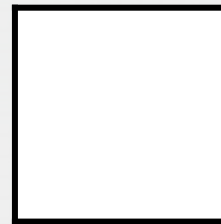
10 ones



+



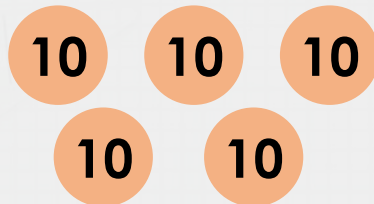
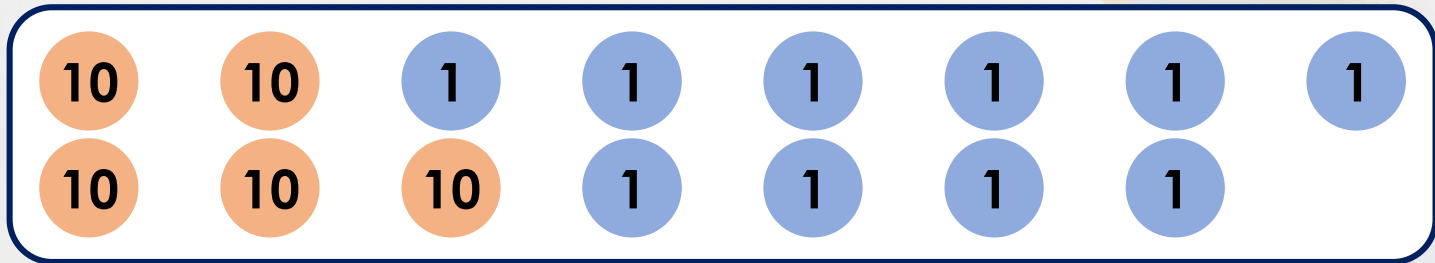
=





## Varied Fluency 1

Complete  $5 \times 12$ , by partitioning it into tens and ones.



10 ones

50

+

10

=

60

Answer

## Varied Fluency 2

Fill in the grid to find the answer.

<b>x</b>	<b>10</b>	<b>1</b>
<b>8</b>		

$$11 \times 8 =$$

## Varied Fluency 2

Fill in the grid to find the answer.

**Answer**

<b>x</b>	<b>10</b>	<b>1</b>
<b>8</b>	<b>80</b>	<b>8</b>

$$11 \times 8 = 88$$



### Varied Fluency 3

Use  $>$ ,  $<$  or  $=$  to make each statement correct.

$96 \div 12$

$88 \div 11$

$5 \times 11$

$4 \times 12$

$12 \times 12$

$132 \div 11$

### Varied Fluency 3

Use  $>$ ,  $<$  or  $=$  to make each statement

**Answer**

$96 \div 12$

**=**

$88 \div 11$

$5 \times 11$

**>**

$4 \times 12$

$12 \times 12$

**>**

$132 \div 11$

## Varied Fluency 4

Complete the missing numbers.

A.  x 12 = 24

B. 11 x 9 =

C. 9 =  ÷ 11

D.  ÷ 12 = 2

## Varied Fluency 4

Complete the missing numbers.

A.  $\boxed{2} \times 12 = 24$

B.  $11 \times 9 = \boxed{99}$

C.  $9 = \boxed{99} \div 11$

D.  $\boxed{24} \div 12 = 2$



## Problem Solving 1

Write number sentences to describe five equal groups of the place value counters shown below.

1 10

1 10

10 1

1 10

10 1

$$\square \times \square = \square$$

$$\square \times \square = \square$$

$$\square \div \square = \square$$

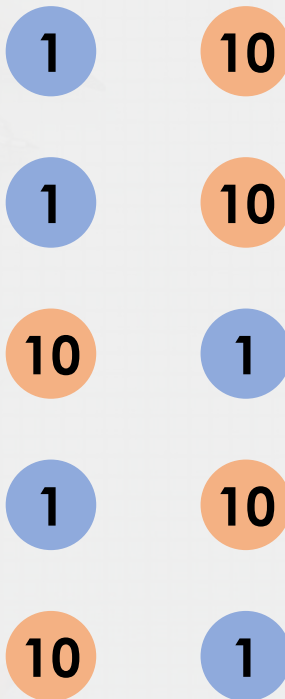
$$\square \div \square = \square$$



## Problem Solving 1

Write number sentences to describe five equal value counters shown below of the place

**Answer**



$$\begin{array}{rclcl} \boxed{5} & \times & \boxed{11} & = & \boxed{55} \\ \boxed{11} & \times & \boxed{5} & = & \boxed{55} \\ \boxed{55} & \div & \boxed{5} & = & \boxed{11} \\ \boxed{55} & \div & \boxed{11} & = & \boxed{5} \end{array}$$

## Problem Solving 2

Rocco is hosting a dinner party. Part of his sea bass recipe is shown below.

	To serve <u>one</u> person, I need:
	10 artichokes
	2 handfuls of sun-dried tomatoes
	2 slices of bread
	3 finely chopped leeks
	6 slices of Parma ham
	1 large sea bass fillet

How many artichokes and slices of ham will he need for 12 guests?

Rocco is hosting a dinner party. Part of his sea bass recipe is shown below.

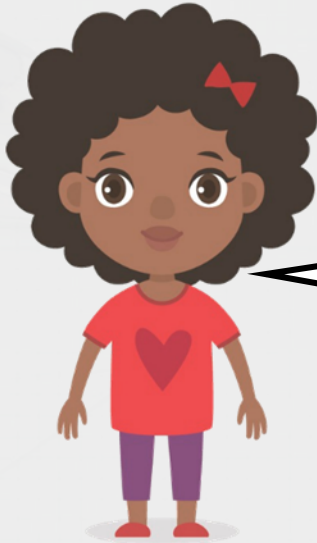
	To serve <u>one</u> person, I need:
	<b>10 artichokes</b>
	2 handfuls of sun-dried tomatoes
	2 slices of bread
	3 finely chopped leeks
	<b>6 slices of Parma ham</b>
	1 large sea bass fillet

How many artichokes and slices of ham will he need for 12 guests?

**Rocco will need 120 artichokes ( $10 \times 12$ ) and 72 slices of ham ( $6 \times 12$ ).**

## Reasoning 1

**Nyla is working out the multiplication  $12 \times 12$ .**



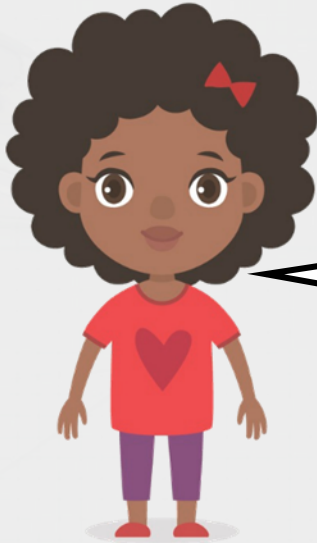
**The answer is 144 as  
it's the same as  
 $12 \times 10$  add  $12 \times 2$ .  
 $120 + 24 = 144$ .**

**Is Nyla correct? Explain your answer.**



## Reasoning 1

**Nyla is working out the multiplication  $12 \times 12$ .**



**The answer is 144 as  
it's the same as  
 $12 \times 10$  add  $12 \times 2$ .  
 $120 + 24 = 144$ .**

**Is Nyla correct? Explain your answer.**

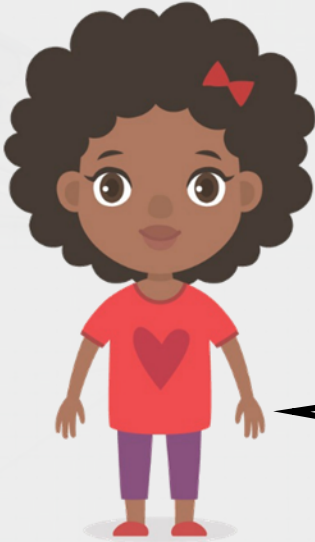
**Yes, Nyla is correct because...**



## Reasoning 1

Nyla is working out the multiplication  $12 \times 12$ .

**Answer**



The answer is 144 as  
it's the same as  
 $12 \times 10$  add  $12 \times 2$ .  
 $120 + 24 = 144$ .

Is Nyla correct? Explain your answer.

**Yes, Nyla is correct because she has partitioned 12 correctly.  
 $12 \times 10 = 120$  and  $12 \times 2 = 24$ ,  $120 + 24 = 144$ .**

## TASK

11 and 12 Times Table

4a. Write related number sentences to describe six equal groups of the place value counters shown below.

10	1	10	$\square \times \square = \square$
1	1	10	$\square \times \square = \square$
1	10	10	$\square \div \square = \square$
10	1	1	$\square \div \square = \square$



PS

11 and 12 Times Table

4b. Write related number sentences to describe seven equal groups of the place value counters shown below.

10	1	10	$\square \times \square = \square$
1	10	10	$\square \times \square = \square$
10	1	10	$\square \div \square = \square$
10	1	10	$\square \div \square = \square$



PS

5a. Enid is hosting a dinner party. Part of her paella recipe is shown below.

	To serve <u>one</u> person, I need:
	6 tbsp of olive oil
	4 onions, finely chopped
	9 large tiger prawns
	5 ripe tomatoes
	3 cloves of garlic
	1 lemon

How many tiger prawns and onions, will she need for 11 guests?



PS

5b. Bruce is hosting a dinner party. Part of his chilli recipe is shown below.

	To serve <u>one</u> person, I need:
	3 onions, finely chopped
	12 green olives
	1 bay leaf
	5 red peppers
	2 tbsp of olive oil
	5 tsp of oregano

How many red peppers and olives will he need for 12 guests?



PS

# Task continued

6a. Charlie is working out the multiplication  $8 \times 11$ .



I know the answer is 88, because it's the same as  $8 \times 10$  add  $8 \times 1$ .

Is Charlie correct?  
Explain your answer.



6b. Elisha is working out the multiplication  $9 \times 12$ .



I know the answer is 118, because it's the same as  $9 \times 10$  add  $9 \times 2$ .

Is Elisha correct?  
Explain your answer.



# Answer

## Expected

4a.  $6 \times 11 = 66$ ;  $11 \times 6 = 66$ ;  $66 \div 6 = 11$ ;  
 $66 \div 11 = 6$

5a. Enid would need 99 tiger prawns ( $9 \times 11$ ) and 44 onions ( $4 \times 11$ ) to serve 11 guests.

6a. Charlie is correct because  $8 \times 10 = 80$  and  $8 \times 1 = 8$ .  $80 + 8 = 88$ .

## Expected

4b.  $7 \times 12 = 84$ ;  $12 \times 7 = 84$ ;  $84 \div 7 = 12$ ;  
 $84 \div 12 = 7$

5b. Bruce would need 60 red peppers ( $5 \times 12$ ) and 144 green olives ( $12 \times 12$ ) to serve 12 guests.

6b. Elisha is incorrect because  $9 \times 10 = 90$  and  $9 \times 2 = 18$ ,  $90 + 18 = 108$ , not 118.