Date: _____ **Answer key** _____

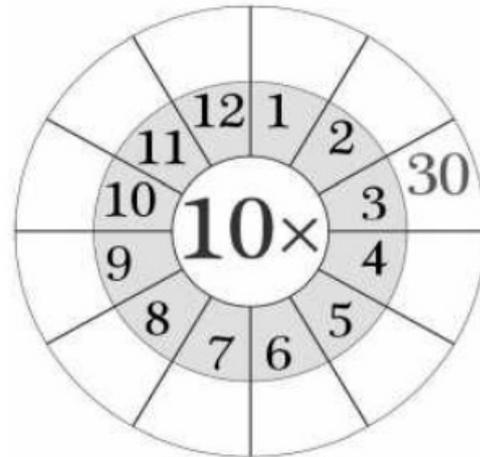## Chapter 2 Section B : Multiply Numbers by 10 (2.B.1)
Objective: Use knowledge of place value to multiply whole numbers by 10.

- When we multiply any number by 10, we <u>shift</u> the digits one place to the left and we replace the ones with a 0.

Q1. Complete the chart below.

Q2. Find each **product** from the multiplication table of 10.

$8 \times 10 =$ __80__ $9 \times 10 =$ __90__ $5 \times 10 =$ __50__

$7 \times 10 =$ __70__ $3 \times 10 =$ __30__ $11 \times 10 =$ __110__

Q3. Fill in the blanks with the correct answer.

a) How many tens are there in 50? _____5_____

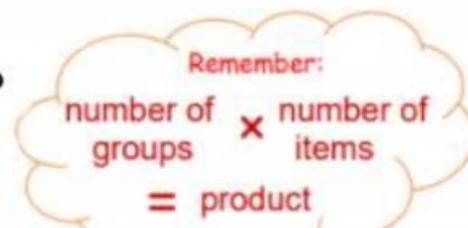b) How many tens are there in 80? _____8_____

c) How many tens are there in 120? _____12_____

d) How many tens are there in 100? _____10_____

Q4. There are 10 pencils in a pencil case.

How many pencils are there in 3 pencil cases?

Remember:

number of × number of
groups   items

= product

groups × items =

3 × 10 = 30

_____30_____ pencils

Q5. Answer the following with "**true**" or "**false**".

a) The **product** of multiplying any **whole** number by 10 will have
a zero in the ones place. ___true_____

b) In multiplication, we can switch the order of the
factors and still have the same product such as 10 × 1
and 1 × 10. ___true_____

Q6. The cost of some items is shown in the table below.

Item	towel	comb	toothbrush
Cost	$15	$4	$2

Sam bought **10 towels, 10 toothbrushes and 10 combs.**

How much did he spend **altogether?** $__$210____

towels: 10 × $15 = $150
combs: 10 × $4 = $40
toothbrushes: 10 × $2 = $20
$150 + $40 + $ 20 = $210

32

Q7. Write the missing numbers in the two empty boxes.

36 $\xrightarrow{\times 10}$ **360**

84 $\xrightarrow{\times 10}$ 840

Q8. Read what Yasmin says. Explain why she must be incorrect.

> I am thinking of a two-digit whole number. When I multiply it by 10 the answer is 791
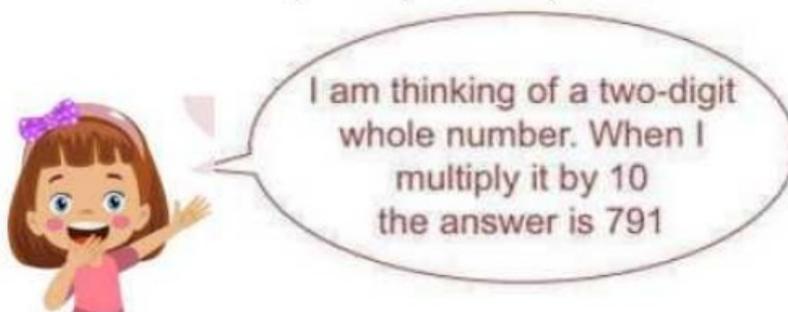
When we multiply any number by 10 we will have a zero in the ones place value
We will never have a 1 in the ones place value.

Q9. Multiply and write the **product**.

1 × 10 = **10**

12 × 10 = **120**

34 × 10 = **340**

3 × 10 = **30**

56 × 10 = **560**

88 × 10 = **880**

7 × 10 = **70**

19 × 10 = **190**

10 × 10 = **100**

0 × 10 = **0**

any number multiplied by 0 is always 0

Q10. Fill in the missing numbers.

a) ___76___ × 10=760   b) 840= 84 × ___10___

c) one hundred and ten = ___110___

Q11. Sandy wants to buy 20 pieces of chocolate.
    <u>Each piece</u> costs 10 cents.
    How much money does she need to buy the chocolates?

number of groups × number of items = product

groups   ×   items =
  20   ×   10   = 200 cents = $ 2

___200___ cents

groups   items
Q12. Fadi has 10 bags, inside each bag he puts 5 toys.
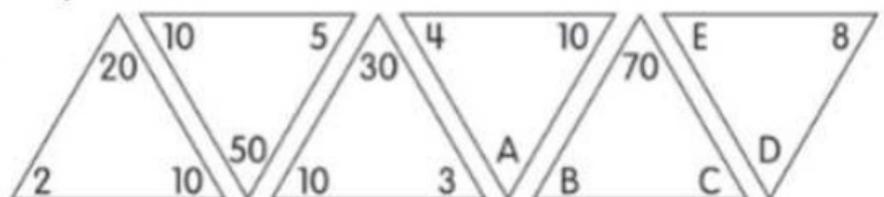   How many toys will he have in **all** the bags?

groups   × items =
  10   ×   5   = 50

___50___ toys

Q13. The numbers make a pattern.
Complete the pattern.

A=___40___   B=___7___   C=___10___   D=___80___