

Zero Power Multiply

Multiply with tens and hundreds.

GRADE 3 • MA.3.NSO.2.3

MA.3.NSO.2.3 "Multiply a one-digit whole number by a multiple of 10, up to 90, or a multiple of 100, up to 900, with procedural reliability."

NAME _____

DATE _____

USE THE BASIC FACT

First, multiply the one-digit number by the nonzero digit. Then put the same number of zeros in your product as the multiple of 10 or 100 has.

WORKED EXAMPLE

$$7 \times 40$$

1. Multiply $7 \times 4 = 28$.
2. The number 40 has 1 zero.
3. Put 1 zero after 28: 280.

Answer: 280

PRACTICE 6 problems

1 $6 \times 30 = \underline{\hspace{2cm}}$

ANSWER _____

2 $8 \times 50 = \underline{\hspace{2cm}}$

ANSWER _____

3 $4 \times 90 = \underline{\hspace{2cm}}$

ANSWER _____

4 $9 \times 20 = \underline{\hspace{2cm}}$

ANSWER _____

5 $5 \times 600 = \underline{\hspace{2cm}}$

ANSWER _____

6 $3 \times 800 = \underline{\hspace{2cm}}$

ANSWER _____

APPLY IT Show your work

- 1** A school club puts 200 stickers in each of 4 prize boxes. How many stickers are in all the boxes?

WORK SPACE

ANSWER _____

- 2** Jordan makes 8 bead bracelets. Each bracelet uses 90 beads. How many beads does Jordan use?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A game store has 4 boxes with 300 cards in each box. It also has 4 packs with 20 cards in each pack. How many cards does the store have altogether?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$6 \times 30 = \underline{\hspace{1cm}}$	180
2	$8 \times 50 = \underline{\hspace{1cm}}$	400
3	$4 \times 90 = \underline{\hspace{1cm}}$	360
4	$9 \times 20 = \underline{\hspace{1cm}}$	180
5	$5 \times 600 = \underline{\hspace{1cm}}$	3000
6	$3 \times 800 = \underline{\hspace{1cm}}$	2400

PART 2 • APPLY IT

1. **800 stickers** Multiply 4×200 . Since $4 \times 2 = 8$, the product is 800.
2. **720 beads** Multiply 8×90 . Since $8 \times 9 = 72$, the product is 720.

CHALLENGE

1280 cards

Accept products written with or without commas, such as 3,000 or 3000. For the challenge, accept $4 \times 300 = 1200$ and $4 \times 20 = 80$, then $1200 + 80 = 1280$.