

Tens Times Fun

Use place value to multiply by groups of ten.

GRADE 3 • NY-3.NBT.3

NY-3.NBT.3 "Multiply one-digit whole numbers by multiples of 10 in the range 10-90 using strategies based on place value and properties of operations."

NAME _____

DATE _____

MULTIPLY BY TENS

A multiple of 10 is made of tens. Multiply the one-digit factor by the number of tens, then write the product as tens. You can use a basic fact you know to solve each problem.

WORKED EXAMPLE

Find 8×40 .

1. 40 is 4 tens.
2. $8 \times 4 = 32$.
3. 8×4 tens = 32 tens.
4. 32 tens = 320.

Answer: 320

PRACTICE 6 problems

1 Find 3×20 .

ANSWER _____

2 Find 6×70 .

ANSWER _____

3 Find 9×50 .

ANSWER _____

4 Find 7×30 .

ANSWER _____

5 Find 4×90 .

ANSWER _____

6 Use 5×6 to help you find 5×60 .

ANSWER _____

APPLY IT Show your work

- 1** A game club gives 2 prize tickets to each of 90 players. How many prize tickets does the club give?

WORK SPACE

ANSWER _____

- 2** There are 7 rows of 50 seats for a school talent show. How many seats are there altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Explain why 9×70 equals 630. Use the word tens in your explanation.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find 3×20 .	60
2	Find 6×70 .	420
3	Find 9×50 .	450
4	Find 7×30 .	210
5	Find 4×90 .	360
6	Use 5×6 to help you find 5×60 .	300

PART 2 • APPLY IT

1. **180 prize tickets** Multiply 2×90 . Two groups of 9 tens is 18 tens, or 180.
2. **350 seats** Multiply 7×50 . Seven groups of 5 tens is 35 tens, or 350.

CHALLENGE

70 is 7 tens. 9×7 tens is 63 tens, and 63 tens is 630.

Accept equations or place-value explanations that show the basic fact multiplied by the number of tens. For the challenge, accept any accurate explanation that identifies 70 as 7 tens and 630 as 63 tens.