

Grade 3 - Multiplying by Multiples of 10 - Answer Key

Common Core 3.NBT.A.3 · maths-pdf.fr/en/

This **multiply tens answers** for 3rd Grade covers multiplying by multiples of 10 (Common Core 3.NBT.A.3), with a free PDF to print.

Each solution names the tens first, multiplies the basic fact, and then writes the product. The final answer is in bold. Use these steps to find where a mistake started.

Grade 3 · Common Core State Standards: **3.NBT.A.3**

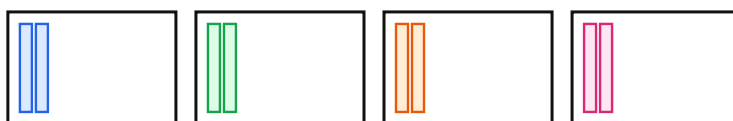
Multiply tens answers: exercises 1 to 10

Exercise 1 - Multiply by 20

Think of 20 as 2 tens. $3 \times 2 = 6$, so $3 \times 2 \text{ tens} = 6 \text{ tens}$.

6 tens is $6 \times 10 = 60$. $3 \times 20 = 60$. Answer: **60**.

Exercise 2 - Count the rods



4 groups × 2 tens each

8 rods of ten make 80.

4 boxes with 2 rods each is $4 \times 2 = 8$ rods. 8 tens is $8 \times 10 = 80$.

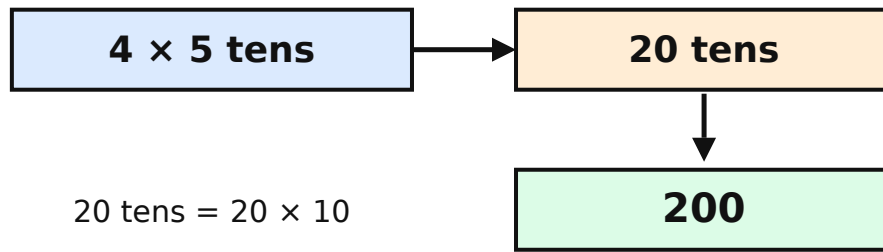
Answer: **80**.

Exercise 3 - Skip count by 30

5 jumps of 30 is 5×30 . Counting by 30s: 30, 60, 90, 120, 150.

$5 \times 30 = 150$. Answer: **150**.

Exercise 4 - Multiply by 50



$$20 \text{ tens} = 20 \times 10$$

$$4 \times 5 \text{ tens} = 20 \text{ tens} = 200.$$

Think of 50 as 5 tens. $4 \times 5 = 20$, so $4 \times 5 \text{ tens} = 20 \text{ tens}$.

20 tens is $20 \times 10 = 200$. $4 \times 50 = 200$. Answer: **200**.

Exercise 5 - Multiply by 80

Think of 80 as 8 tens. $3 \times 8 = 24$, so $3 \times 8 \text{ tens} = 24 \text{ tens}$.

24 tens is $24 \times 10 = 240$. $3 \times 80 = 240$. Answer: **240**.

Exercise 6 - Multiply by 40

Think of 40 as 4 tens. $7 \times 4 = 28$, so $7 \times 4 \text{ tens} = 28 \text{ tens}$.

28 tens is $28 \times 10 = 280$. $7 \times 40 = 280$. Answer: **280**.

Exercise 7 - Multiply by 20 again

Think of 20 as 2 tens. $8 \times 2 = 16$, so $8 \times 2 \text{ tens} = 16 \text{ tens}$.

16 tens is $16 \times 10 = 160$. $8 \times 20 = 160$. Answer: **160**.

Exercise 8 - A bigger product

Think of 30 as 3 tens. $9 \times 3 = 27$, so $9 \times 3 \text{ tens} = 27 \text{ tens}$.

27 tens is $27 \times 10 = 270$. $9 \times 30 = 270$. Answer: **270**.

Exercise 9 - Two zeros in the answer

Think of 50 as 5 tens. $8 \times 5 = 40$, so $8 \times 5 \text{ tens} = 40 \text{ tens}$.

40 tens is $40 \times 10 = 400$. $8 \times 50 = 400$. Answer: **400**.

$8 \times 5 = 40$ already ends in 0. Multiplying by 10 adds one more zero, so the product ends in two zeros.

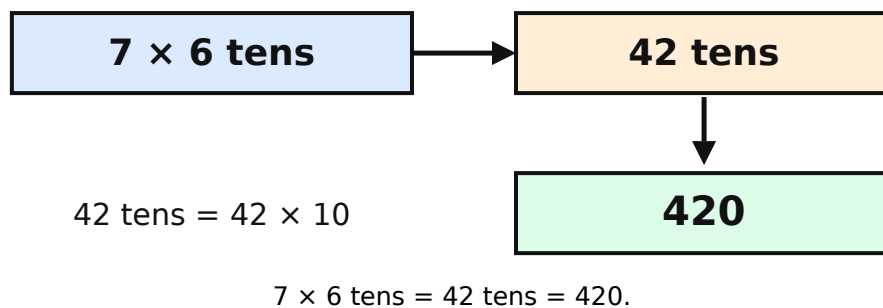
Exercise 10 - Use a basic fact

70 is 7 tens, so 6×70 is 6 groups of 7 tens, or 42 tens.

$42 \times 10 = 420$. Answer: **420**.

Exercises 11 and up

Exercise 11 - Complete the tens



$7 \times 6 = 42$, so 42 tens, and $42 \times 10 = 420$.

Answer: **42 tens = 420**.

Exercise 12 - Break apart 80

$9 \times 8 = 72$, then $72 \times 10 = 720$.

$9 \times 80 = 720$. Answer: **720**.

Exercise 13 - Missing factor

$4 \times 8 = 32$, so $4 \times 8 \text{ tens} = 32 \text{ tens}$, which is 320.

Check: $4 \times 80 = 320$. Answer: **80**.

Exercise 14 - Missing factor, first place

$7 \times 6 = 42$, so $7 \times 60 = 420$.

Answer: **7**.

Exercise 15 - Compare products

$6 \times 50 = 300$ and $7 \times 40 = 280$.

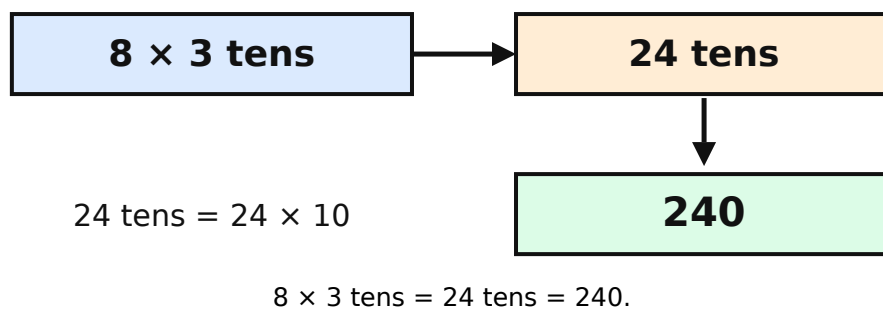
$300 > 280$. Answer: $6 \times 50 > 7 \times 40$.

Exercise 16 - Order the products

$4 \times 70 = 280$, $9 \times 30 = 270$, $5 \times 60 = 300$, $8 \times 40 = 320$.

Answer: 9×30 , 4×70 , 5×60 , 8×40 .

Exercise 17 - Pencil boxes



Think of 30 as 3 tens. $8 \times 3 = 24$, so $8 \times 3 \text{ tens} = 24 \text{ tens}$.

24 tens is $24 \times 10 = 240$. $8 \times 30 = 240$. Answer: **240 pencils**.

Exercise 18 - Orange crates

Think of 50 as 5 tens. $6 \times 5 = 30$, so $6 \times 5 \text{ tens} = 30 \text{ tens}$.

30 tens is $30 \times 10 = 300$. $6 \times 50 = 300$. Answer: **300 oranges**.

Exercise 19 - Water bottles

Think of 20 as 2 tens. $9 \times 2 = 18$, so $9 \times 2 \text{ tens} = 18 \text{ tens}$.

18 tens is $18 \times 10 = 180$. $9 \times 20 = 180$. Answer: **180 water bottles**.

Exercise 20 - Sticker packs

Think of 80 as 8 tens. $7 \times 8 = 56$, so $7 \times 8 \text{ tens} = 56 \text{ tens}$.

56 tens is $56 \times 10 = 560$. $7 \times 80 = 560$. Answer: **560 stickers**.

Exercise 21 - Library shelves

First group: $4 \times 60 = 240$. Second group: $3 \times 40 = 120$.

Total: $240 + 120 = 360$. Answer: **360 books**.

Exercise 22 - Find the mistake

Think of 40 as 4 tens. $5 \times 4 = 20$, so $5 \times 4 \text{ tens} = 20 \text{ tens}$.

20 tens is $20 \times 10 = 200$. $5 \times 40 = 200$. Answer: **200**.

Noah found $5 \times 4 = 20$, which is $5 \times 4 \text{ ones}$. But 40 is 4 tens, so the answer is 20 tens, or 200.

Key facts behind this multiply tens answers

Key facts

- A multiple of 10 is a whole number of tens, such as 30 (3 tens) or 80 (8 tens).
- Multiply the basic fact first: $9 \times 8 = 72$, so $9 \times 80 = 720$.
- The answer is that many tens, so the product ends in 0.
- If the basic fact ends in 0, the product ends in two zeros: $5 \times 60 = 300$.
- Skip counting by the multiple of 10 gives the same answer.

How to use this multiply tens answers

Cover each solution, solve the exercise again, then uncover it and compare every line. If your answer differs, find the first step that changed and redo the exercise from there.

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