Multiplying by Multiples of 10

Explore ideas and representations

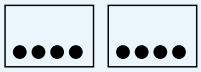
Name _____ **Date** _____ **Score** _____ / 8

QUICK REVIEW

A multiple of 10 is a number of tens. 4×30 means 4×3 tens: 12 tens $= 120$. Keep the unit: $4 \times 3 = 12$ is the tens count, not the final number of ones.

Worked example

Each dot stands for 10 counters. Find the counters in the picture.



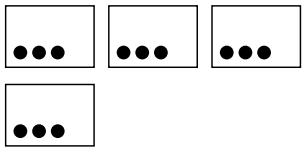
1. There are 2 groups of 4 dots, so $2 \times 4 = 8$ dots.
2. Each dot is 10 counters: $8 \times 10 = 80$ counters.
Answer: 80 counters.

Practice Problems

Show your thinking.

1. Find 3×40. Show the tens fact.

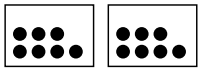
2. Each dot stands for 10 counters. Find the counters in the picture.



3. Use $60 = 50 + 10$ to find 5×60.

4. Find 6×20. Show the tens fact.

5. Each dot stands for 10 counters. Find the counters in the picture.



6. Bo says $7 \times 40 = 28$ because $7 \times 4 = 28$. What unit did he forget? Correct the answer.

7. How much greater is 8×30 than 8×20? Explain without subtracting the full products first.

8. Find 9×50. Show the tens fact.

Answer Key

1. 120.
2. 120 counters.
3. 300.
4. 120.
5. 140 counters.
6. 280; he forgot tens.
7. 80 greater.
8. 450.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. 40 is 4 tens; $3 \times 4 = 12$.
2. The product is 12 tens, or $12 \times 10 = 120$.

Problem 2

1. There are 4 groups of 3 dots, so $4 \times 3 = 12$ dots.
2. Each dot is 10 counters: $12 \times 10 = 120$ counters.

Problem 3

1. $5 \times 50 = 250$ and $5 \times 10 = 50$.
2. Add the parts: $250 + 50 = 300$.

Problem 4

1. 20 is 2 tens; $6 \times 2 = 12$.
2. The product is 12 tens, or $12 \times 10 = 120$.

Problem 5

1. There are 2 groups of 7 dots, so $2 \times 7 = 14$ dots.
2. Each dot is 10 counters: $14 \times 10 = 140$ counters.

Problem 6

1. The fact $7 \times 4 = 28$ counts tens, since $40 = 4 \times 10$.
2. 28 tens equal $28 \times 10 = 280$ ones, not 28 ones.

Problem 7

1. The second factor grows by $30 - 20 = 10$, adding 10 to each of 8 groups.
2. The increase is $8 \times 10 = 80$. Check: $240 - 160 = 80$.

Problem 8

1. 50 is 5 tens; $9 \times 5 = 45$.
2. The product is 45 tens, or $45 \times 10 = 450$.

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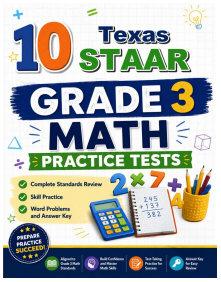

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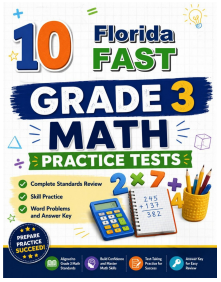

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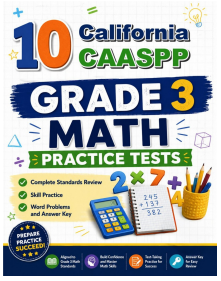

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