# Multiplying by Multiples of 10

Spot mistakes, reason, and work backward

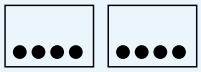
**Name** _____ **Date** _____ **Score** _____ / 8

**QUICK REVIEW**

A multiple of $10$ is a number of tens. $4 \times 30$ means $4 \times 3$ 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.** Bo says $6 \times 70 = 42$ because $6 \times 7 = 42$. What unit did he forget? Correct the answer.

**2.** Complete $4 \times \square = 320$. The box is a multiple of $10$.

**3.** How much greater is $7 \times 50$ than $7 \times 40$? Explain without subtracting the full products first.

**4.** Complete $3 \times \square = 270$. The box is a multiple of $10$.

**5.** Bo says $5 \times 40 = 20$ because $5 \times 4 = 20$. What unit did he forget? Correct the answer.

**6.** Find $8 \times 60$, then record the result as hundreds and leftover tens.

| Hundreds | Tens | Ones |
|---|---|---|
| ☐ | ☐ | 0 |

**7.** How much greater is $2 \times 80$ than $2 \times 70$? Explain without subtracting the full products first.

**8.** Complete $9 \times \square = 270$. The box is a multiple of $10$.

# Answer Key

1. $420$; he forgot tens.
2. $\square = 80$.
3. $70$ greater.
4. $\square = 90$.
5. $200$; he forgot tens.
6. $480 = 4$ hundreds and $8$ tens.
7. $20$ greater.
8. $\square = 30$.

## Step-by-Step Solutions

Follow each calculation, then check your own work.

### Problem 1

1. The fact $6 \times 7 = 42$ counts tens, since $70 = 7 \times 10$.
2. $42$ tens equal $42 \times 10 = 420$ ones, not $42$ ones.

### Problem 2

1. $320$ is $32$ tens. Sharing these among $4$ groups gives $32 \div 4 = 8$ tens each.
2. $8$ tens are $80$; check $4 \times 80 = 320$.

### Problem 3

1. The second factor grows by $50 - 40 = 10$, adding $10$ to each of $7$ groups.
2. The increase is $7 \times 10 = 70$. Check: $350 - 280 = 70$.

### Problem 4

1. $270$ is $27$ tens. Sharing these among $3$ groups gives $27 \div 3 = 9$ tens each.
2. $9$ tens are $90$; check $3 \times 90 = 270$.

### Problem 5

1. The fact $5 \times 4 = 20$ counts tens, since $40 = 4 \times 10$.
2. $20$ tens equal $20 \times 10 = 200$ ones, not $20$ ones.

### Problem 6

1. $8 \times 6 = 48$ tens, so $8 \times 60 = 480$.
2. Group the $48$ tens into groups of $10$: $48 = 4 \times 10 + 8$. That is $4$ hundreds and $8$ tens.

### Problem 7

1. The second factor grows by $80 - 70 = 10$, adding $10$ to each of $2$ groups.
2. The increase is $2 \times 10 = 20$. Check: $160 - 140 = 20$.

### Problem 8

1. $270$ is $27$ tens. Sharing these among $9$ groups gives $27 \div 9 = 3$ tens each.
2. $3$ tens are $30$; check $9 \times 30 = 270$.

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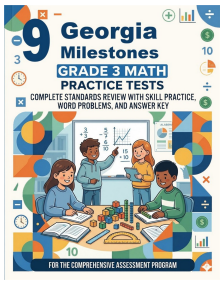


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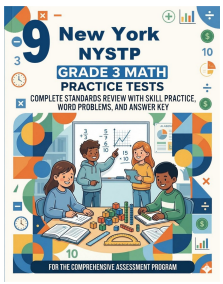


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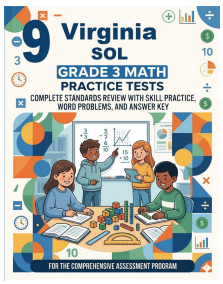


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