Multiplying by Multiples of 10

Apply the skill to decisions and designs

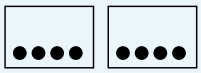
Name _____ **Date** _____ **Score** _____ / 8

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. 4 boxes each hold 60 pencils. A class needs 225 pencils. Find the total and decide if there are enough.

2. 3 tickets cost 70 cents each. A purse holds 230 cents. How much is left after buying the tickets?

3. Plan 5 equal packs containing 400 cards in all. Each pack must hold a multiple of 10. How many per pack?

4. 6 boxes each hold 40 pencils. A class needs 225 pencils. Find the total and decide if there are enough.

5. 7 tickets cost 30 cents each. A purse holds 230 cents. How much is left after buying the tickets?

6. Plan 8 equal packs containing 400 cards in all. Each pack must hold a multiple of 10. How many per pack?

7. 2 boxes each hold 90 pencils. A class needs 165 pencils. Find the total and decide if there are enough.

8. How much greater is 9×60 than 9×50? Explain without subtracting the full products first.

Answer Key

1. 240 pencils; yes, 15 extra.
2. 20 cents.
3. 80 cards per pack.
4. 240 pencils; yes, 15 extra.
5. 20 cents.
6. 50 cards per pack.
7. 180 pencils; yes, 15 extra.
8. 90 greater.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. $4 \times 6 = 24$ tens, so $4 \times 60 = 240$ pencils.
2. $240 - 225 = 15$ extra pencils, so the boxes are enough.

Problem 2

1. The tickets cost $3 \times 70 = 210$ cents because $3 \times 7 = 21$ tens.
2. The change is $230 - 210 = 20$ cents.

Problem 3

1. The total has 40 tens; $40 \div 5 = 8$ tens go in each pack.
2. Choose 80 cards per pack. Check $5 \times 80 = 400$ cards.

Problem 4

1. $6 \times 4 = 24$ tens, so $6 \times 40 = 240$ pencils.
2. $240 - 225 = 15$ extra pencils, so the boxes are enough.

Problem 5

1. The tickets cost $7 \times 30 = 210$ cents because $7 \times 3 = 21$ tens.
2. The change is $230 - 210 = 20$ cents.

Problem 6

1. The total has 40 tens; $40 \div 8 = 5$ tens go in each pack.
2. Choose 50 cards per pack. Check $8 \times 50 = 400$ cards.

Problem 7

1. $2 \times 9 = 18$ tens, so $2 \times 90 = 180$ pencils.
2. $180 - 165 = 15$ extra pencils, so the boxes are enough.

Problem 8

1. The second factor grows by $60 - 50 = 10$, adding 10 to each of 9 groups.
2. The increase is $9 \times 10 = 90$. Check: $540 - 450 = 90$.

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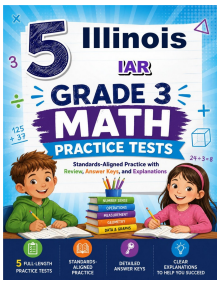

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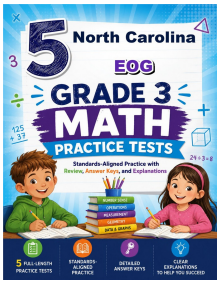

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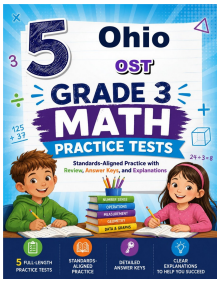

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