

Grade 3 · Multiplying by Multiples of 10 · Test Answer Key

Common Core 3.NBT.A.3 · mathovore.fr

Use this key to score the test out of 20 points. Each solution shows the work a student should write, and the scoring note explains how to give partial credit when a student shows correct steps but makes a small slip.

Grade 3 Common Core: 3.NBT.A.3

Question 1: Quick products (2 points)

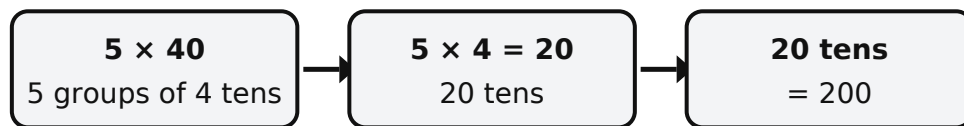
a. $3 \times 6 = 18$, so $3 \times 60 = 180$. **180**

b. $7 \times 4 = 28$, so $7 \times 40 = 280$. **280**

Scoring: 1 point for each correct product.

Question 2: Groups of tens (2 points)

There are 5 boxes with 4 tens in each. $5 \times 40 = 200$, because $5 \times 4 = 20$ tens is 200.



Steps for 5×40 .

200

Scoring: 1 point for the sentence 5×40 , 1 point for 200.

Question 3: Missing factors (2 points)

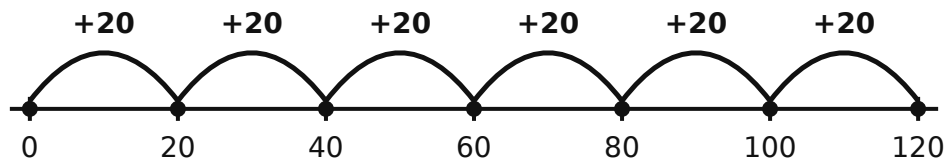
a. 640 is 64 tens and $8 \times 8 = 64$. **80**

b. 270 is 27 tens and $9 \times 3 = 27$. **9**

Scoring: 1 point for each correct missing number.

Question 4: Jumps of 20 (2 points)

There are 6 jumps of 20. $6 \times 20 = 120$.



The last jump lands on 120.

120

Scoring: 1 point for 6×20 , 1 point for 120.

Question 5: Comparing (2 points)

- a. $6 \times 50 = 300$ and $5 \times 60 = 300$. =
- b. $9 \times 30 = 270$ and $8 \times 40 = 320$. <

Scoring: 1 point for each correct comparison.

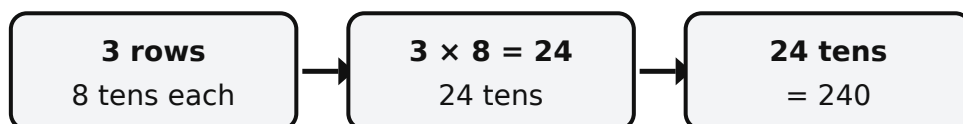
Question 6: Explaining a product (2 points)

- a. $7 \times 5 = 35$. **35**
- b. 50 is 5 tens, so 7 groups of 5 tens is 35 tens. 35 tens is 350. **350**

Scoring: 1 point for 35, 1 point for an explanation that uses tens and gives 350.

Question 7: Tens grid (2 points)

There are $3 \times 8 = 24$ squares worth 10 each. 24 tens is 240.



Steps for the grid.

$$3 \times 80 = 240$$

Scoring: 1 point for the sentence 3×80 , 1 point for 240.

Question 8: School store (3 points)

- a. $7 \times 2 = 14$ tens, so $7 \times 20 = 140$. **140 erasers**
- b. $4 \times 6 = 24$ tens, so $4 \times 60 = 240$. **240 pencils**
- c. $140 + 240 = 380$. **380 items**

Scoring: 1 point for each part.

Question 9: Find the mistake (3 points)

- a. Jamal found $8 \times 6 = 48$ but forgot that 60 is 6 tens, not 6 ones. The 48 is 48 tens.
- b. $8 \times 60 = 480$. **480**
- c. 60 is 6 tens. 8 groups of 6 tens is 48 tens. 48 tens is 480.

Scoring: 1 point for naming the missing tens, 1 point for 480, 1 point for the tens explanation.

Total
20 points