

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

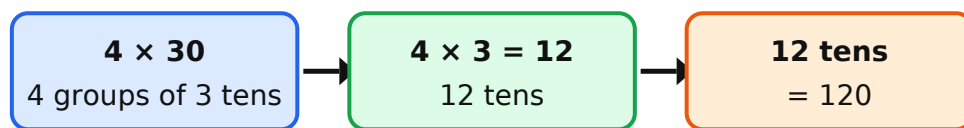
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Each solution turns the multiple of 10 into tens, multiplies the basic fact, and then names the product as a number. The final answer is in bold. Compare your steps with these to find where a mistake started.

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

Problem 1: Counting tens in rods

There are 4 boxes with 3 tens in each box. $4 \times 3 = 12$ tens. 12 tens is 120.

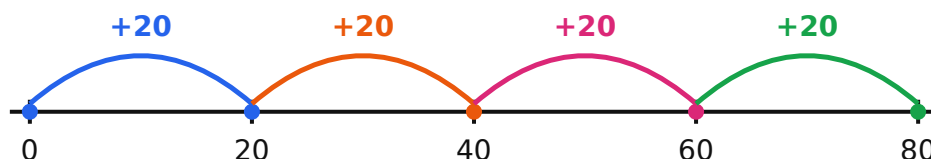


Steps for 4×30 .

Answer: **120**

Problem 2: Skip counting by 20

The jumps land on 20, 40, 60, 80. That is $4 \times 20 = 80$.



The last jump lands on 80.

Answer: **80**

Problem 3: Using a basic fact

40 is 4 tens. 6 groups of 4 tens is 24 tens. 24 tens is 240.

Answer: **240**

Problem 4: Multiplying by 30

Think of 30 as 3 tens. Then $6 \times 3 = 18$, so 6 groups of 3 tens is 18 tens.

18 tens is 180. So $6 \times 30 = 180$.

Answer: **180**

Problem 5: Multiplying by 60

Think of 60 as 6 tens. Then $5 \times 6 = 30$, so 5 groups of 6 tens is 30 tens.

30 tens is 300. So $5 \times 60 = 300$.

Answer: **300**

Problem 6: Multiplying by 20

Think of 20 as 2 tens. Then $7 \times 2 = 14$, so 7 groups of 2 tens is 14 tens.

14 tens is 140. So $7 \times 20 = 140$.

Answer: **140**

Problem 7: Multiplying by 40

Think of 40 as 4 tens. Then $8 \times 4 = 32$, so 8 groups of 4 tens is 32 tens.

32 tens is 320. So $8 \times 40 = 320$.

Answer: **320**

Problem 8: Multiplying by 80

Think of 80 as 8 tens. Then $9 \times 8 = 72$, so 9 groups of 8 tens is 72 tens.

72 tens is 720. So $9 \times 80 = 720$.

Answer: **720**

Problem 9: Multiplying by 70

Think of 70 as 7 tens. Then $3 \times 7 = 21$, so 3 groups of 7 tens is 21 tens.

21 tens is 210. So $3 \times 70 = 210$.

Answer: **210**

Problem 10: Multiplying by 90

Think of 90 as 9 tens. Then $4 \times 9 = 36$, so 4 groups of 9 tens is 36 tens.

36 tens is 360. So $4 \times 90 = 360$.

Answer: **360**

Problem 11: Tens first

70 is 7 tens. Switch the order: 5×70 . $5 \times 7 = 35$, so 35 tens. 35 tens is 350.

Answer: **350**

Problem 12: Missing factor, tens

420 is 42 tens. Think $6 \times 7 = 42$, so $6 \times 70 = 420$.

Answer: **70**

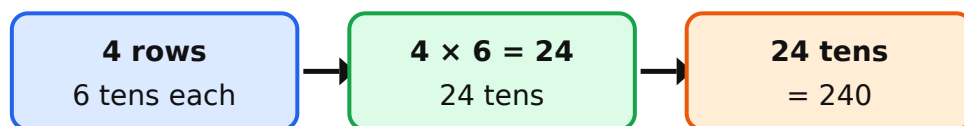
Problem 13: Missing factor, ones

400 is 40 tens and 50 is 5 tens. Think $8 \times 5 = 40$, so $8 \times 50 = 400$.

Answer: **8**

Problem 14: Tens in an array

There are $4 \times 6 = 24$ squares worth 10 each. 24 tens is 240. That matches $4 \times 60 = 240$.



Steps for the grid.

Answer: **240**

Problem 15: Comparing products

$7 \times 30 = 210$ because $7 \times 3 = 21$. $6 \times 40 = 240$ because $6 \times 4 = 24$.

$210 < 240$. Answer: $7 \times 30 < 6 \times 40$

Problem 16: Completing a pattern

$8 \times 3 = 24$ so $8 \times 30 = 240$. $8 \times 6 = 48$ so $8 \times 60 = 480$. $8 \times 9 = 72$ so $8 \times 90 = 720$.

Answer: **240, 480, 720**

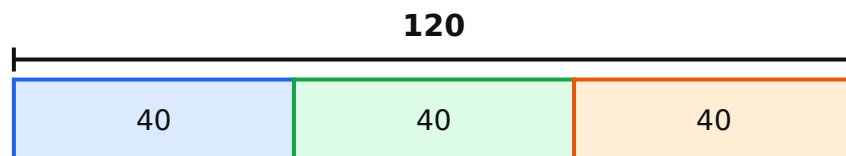
Problem 17: Finding the mistake

Aisha used the basic fact $6 \times 5 = 30$ but forgot that 50 is 5 tens. 30 is 30 tens, not 30 ones. 30 tens is 300.

Answer: $6 \times 50 = 300$

Problem 18: Bags of marbles

$3 \times 4 = 12$, so 12 tens. 12 tens is 120.



The total is 120 marbles.

Answer: **120 marbles**

Problem 19: Bake sale trays

$8 \times 2 = 16$, so 16 tens. 16 tens is 160.

Answer: **160 cookies**

Problem 20: Little League baseballs

$9 \times 2 = 18$, so 18 tens. 18 tens is 180.

Answer: **180 baseballs**

Problem 21: Farmers market baskets

1. Priya: $6 \times 30 = 180$ apples.
2. Jamal: $5 \times 40 = 200$ pears.
3. $200 - 180 = 20$.

Answer: **Jamal sells 20 more**

Problem 22: Road trip miles

1. First part: $7 \times 60 = 420$ miles.
2. Second part: $3 \times 50 = 150$ miles.
3. Total: $420 + 150 = 570$ miles.

Answer: **570 miles**

Problem 23: Sticker books

1. Stickers bought: $6 \times 80 = 480$.
2. Stickers left: $480 - 150 = 330$.

Answer: **330 stickers**