

Multi-Digit *Multiplication*

Answer key

5.NBT.B.5

16 problems

1. 34×6 .

Answer 204 $6 \times 4 = 24$ (write 4, carry 2). $6 \times 3 = 18$, plus 2 is 20. Result: 204.

2. 27×8 .

Answer 216 $8 \times 7 = 56$ (write 6, carry 5). $8 \times 2 = 16$, plus 5 is 21. Result: 216.

3. 145×7 .

Answer 1015 $7 \times 145 = 7 \times 100 + 7 \times 40 + 7 \times 5 = 700 + 280 + 35 = 1015$.

4. Find the product: 53×40 .

Answer 2120 $53 \times 4 = 212$, then attach one zero: $53 \times 40 = 2120$.

5. Find the product: 62×30 .

Answer 1860 $62 \times 3 = 186$, then attach one zero: $62 \times 30 = 1860$.

6. 48×25 .

Answer 1200 $48 \times 25 = 48 \times 100 \div 4 = 4800 \div 4 = 1200$.

7. 73×56 .

Answer 4088 $73 \times 50 = 3650$ and $73 \times 6 = 438$. Add: $3650 + 438 = 4088$.

8. 84×39 .

Answer 3276 $84 \times 40 = 3360$, then subtract one 84: $3360 - 84 = 3276$.

9. 126×34 .

Answer 4284 $126 \times 30 = 3780$ and $126 \times 4 = 504$. Add: $3780 + 504 = 4284$.

10. 207×48 .

Answer 9936 $207 \times 48 = 207 \times 50 - 207 \times 2 = 10350 - 414 = 9936$.

11. 315×26 .

Answer 8190

$$315 \times 26 = 315 \times 25 + 315 = 7875 + 315 = 8190.$$

12. 156×142 .

Answer 22,152

$$156 \times 142 = 156 \times 100 + 156 \times 42 = 15600 + 6552 = 22152.$$

13. A warehouse stores juice boxes in 24 cases. Each case holds 36 boxes. How many juice boxes are there in all?

Answer 864 juice boxes

$$24 \times 36 = 24 \times 30 + 24 \times 6 = 720 + 144 = 864.$$

14. An auditorium has 18 rows of seats with 27 seats in each row. What is the total number of seats?

Answer 486 seats

$$18 \times 27 = 10 \times 27 + 8 \times 27 = 270 + 216 = 486.$$

15. A school orders 215 workbooks. Each workbook costs \$12. Which expression gives the total cost, and what is it?

Answer B) $215 \times 12 = \$2,580$

$$\text{Cost} = 215 \times 12 = 215 \times 10 + 215 \times 2 = 2150 + 430 = \$2,580.$$

16. A bakery sells 48 muffins each day. How many muffins does it sell in 31 days (one month)?

Answer 1,488 muffins

$$48 \times 31 = 48 \times 30 + 48 = 1440 + 48 = 1488.$$