

Multi-Digit *Multiplication*

Answer key

4.NBT.B.5

14 problems

1. 34×6 .

Answer 204 $30 \times 6 = 180$ and $4 \times 6 = 24$, so $180 + 24 = 204$.

2. 218×4 .

Answer 872 $200 \times 4 = 800$, $18 \times 4 = 72$, so $800 + 72 = 872$.

3. 1325×3 .

Answer 3975 $1325 \times 3 = 3975$ (regroup the tens and hundreds).

4. 4082×7 .

Answer 28574 $4082 \times 7 = 28574$. Note $0 \times 7 = 0$ in the hundreds place.

5. 5176×8 .

Answer 41408 $5176 \times 8 = 41408$ (regroup at each place value).

6. 47×23 .

Answer 1081 $47 \times 3 = 141$ and $47 \times 20 = 940$, so $141 + 940 = 1081$.

7. 68×54 .

Answer 3672 $68 \times 4 = 272$ and $68 \times 50 = 3400$, so $272 + 3400 = 3672$.

8. 305×46 .

Answer 14030 $305 \times 6 = 1830$ and $305 \times 40 = 12200$, so $1830 + 12200 = 14030$.

9. 736×82 .

Answer 60352 $736 \times 2 = 1472$ and $736 \times 80 = 58880$, so $1472 + 58880 = 60352$.

10. Which product is correct?

Answer B) $1408 \times 5 = 7040$ $1408 \times 5 = 7040$. The 0 in the tens place still needs a place-value step: $0 \times 5 = 0$.

11. A warehouse stacks boxes in 16 rows with 144 boxes in each row. How many boxes are there in all?

Answer 2304 **boxes**

$144 \times 16 = 2304$. ($144 \times 6 = 864$, $144 \times 10 = 1440$, sum 2304.)

12. An auditorium has 36 rows of seats with 28 seats in each row. How many seats are there?

Answer 1008 **seats**

$28 \times 36 = 1008$. ($28 \times 6 = 168$, $28 \times 30 = 840$, sum 1008.)

13. A printing press makes 365 copies of a 24-page booklet. How many pages does it print altogether?

Answer 8760 **pages**

$365 \times 24 = 8760$. ($365 \times 4 = 1460$, $365 \times 20 = 7300$, sum 8760.)

14. A store gets 18 cases of juice with 24 cans in each case. Each can costs \$2. What is the total value of all the cans? (First find the number of cans.)

Answer \$864

Cans: $24 \times 18 = 432$. Value: $432 \times 2 = \$864$.