Multiplying Two Two-Digit Numbers

Name: _____	Date: _____	Score: _____ / 24

Quick Review

To multiply two two-digit numbers, break the bottom number into its **ones** and **tens**. First multiply the top number by the ones digit. Then multiply the top number by the tens digit — and because that digit really means tens, write its product one place to the left (or put a 0 in the ones spot). Finally, **add** the two partial products together. For example, 42×18 is $(42 \times 8) + (42 \times 10)$. Estimating with rounded numbers helps you check your work.

◇ **Example:** Find 42×18.

⇒ Split 18 into 8 ones and 1 ten. First multiply by the ones: $42 \times 8 = 336$. Next multiply by the tens: $42 \times 1 = 42$, but that 1 is really 10, so the partial product is 420. Now add the two partial products: $336 + 420 = 756$. Check by estimating: $40 \times 20 = 800$, which is close to 756 — great!

Answer: 756

PRACTICE

Multiply. Find each partial product, then add them.

1. 12×14 _____

2. 23×15 _____

3. 31×22 _____

4. 42×18 _____

5. 25×36 _____

6. 34×27 _____

7. 46×23 _____

8. 53×19 _____

9. 62×24 _____

10. 71×33 _____

11. 28×45 _____

12. 37×52 _____

13. 48×26 _____

14. 56×38 _____

15. 64×29 _____

16. 73×41 _____

17. 85×17 _____

18. 92×34 _____

19. 58×47 _____

20. 67×53 _____

♦ Word Problems

21. A classroom has 24 rows of chairs with 16 chairs in each row. How many chairs are in the classroom? _____

22. A garden has 35 rows of tomato plants with 28 plants in each row. How many tomato plants are there? _____

23. A store sells packs of stickers. Each pack has 48 stickers, and the store sells 52 packs. How many stickers is that? _____

24. A school collects 75 cans of food from each of its 36 classrooms. How many cans does the school collect in all? _____

Answer Keys

1. 168
2. 345
3. 682
4. 756
5. 900
6. 918
7. 1,058
8. 1,007
9. 1,488
10. 2,343
11. 1,260
12. 1,924
13. 1,248
14. 2,128
15. 1,856
16. 2,993
17. 1,445
18. 3,128
19. 2,726
20. 3,551
21. 384 chairs
22. 980 plants
23. 2,496 stickers
24. 2,700 cans

Step-by-Step Explanations

1. $12 \times 4 = 48$ and $12 \times 10 = 120$. Add: $48 + 120 = 168$.
2. $23 \times 5 = 115$ and $23 \times 10 = 230$. Add: $115 + 230 = 345$.
3. $31 \times 2 = 62$ and $31 \times 20 = 620$. Add: $62 + 620 = 682$.
4. $42 \times 8 = 336$ and $42 \times 10 = 420$. Add: $336 + 420 = 756$.
5. $25 \times 6 = 150$ and $25 \times 30 = 750$. Add: $150 + 750 = 900$.
6. $34 \times 7 = 238$ and $34 \times 20 = 680$. Add: $238 + 680 = 918$.
7. $46 \times 3 = 138$ and $46 \times 20 = 920$. Add: $138 + 920 = 1{,}058$.
8. $53 \times 9 = 477$ and $53 \times 10 = 530$. Add: $477 + 530 = 1{,}007$.
9. $62 \times 4 = 248$ and $62 \times 20 = 1{,}240$. Add: $248 + 1{,}240 = 1{,}488$.
10. $71 \times 3 = 213$ and $71 \times 30 = 2{,}130$. Add: $213 + 2{,}130 = 2{,}343$.
11. $28 \times 5 = 140$ and $28 \times 40 = 1{,}120$. Add: $140 + 1{,}120 = 1{,}260$.
12. $37 \times 2 = 74$ and $37 \times 50 = 1{,}850$. Add: $74 + 1{,}850 = 1{,}924$.
13. $48 \times 6 = 288$ and $48 \times 20 = 960$. Add: $288 + 960 = 1{,}248$.
14. $56 \times 8 = 448$ and $56 \times 30 = 1{,}680$. Add: $448 + 1{,}680 = 2{,}128$.
15. $64 \times 9 = 576$ and $64 \times 20 = 1{,}280$. Add: $576 + 1{,}280 = 1{,}856$.
16. $73 \times 1 = 73$ and $73 \times 40 = 2{,}920$. Add: $73 + 2{,}920 = 2{,}993$.
17. $85 \times 7 = 595$ and $85 \times 10 = 850$. Add: $595 + 850 = 1{,}445$.
18. $92 \times 4 = 368$ and $92 \times 30 = 2{,}760$. Add: $368 + 2{,}760 = 3{,}128$.
19. $58 \times 7 = 406$ and $58 \times 40 = 2{,}320$. Add: $406 + 2{,}320 = 2{,}726$.
20. $67 \times 3 = 201$ and $67 \times 50 = 3{,}350$. Add: $201 + 3{,}350 = 3{,}551$.
21. Multiply rows by chairs per row: $24 \times 16 = 384$ chairs.
22. Multiply rows by plants per row: $35 \times 28 = 980$ plants.
23. Multiply stickers per pack by packs sold: $48 \times 52 = 2{,}496$ stickers.
24. Multiply cans per classroom by classrooms: $75 \times 36 = 2{,}700$ cans.

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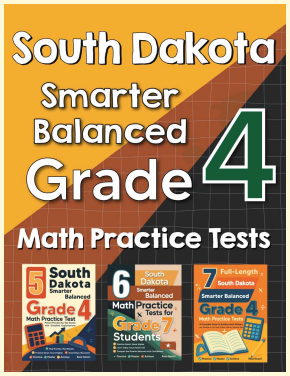

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