

Multiplying by a One-Digit Number

Name: _____ Date: _____ Score: _____ / 24

Q Quick Review

To multiply a big number by a **one-digit number**, multiply each digit of the big number by that one digit, starting from the **ones**. When a product is 10 or more, write the ones digit and **regroup** (carry) the tens into the next column. Remember to add any carried number after you multiply the next place. Multiplication is just **repeated addition**, so 248×6 means six groups of 248. Estimating first — like $250 \times 6 = 1,500$ — helps you check your answer.

◊ **Example:** Find 248×6 .

⇒ Multiply each digit by 6, starting at the ones. Ones: $8 \times 6 = 48$, write 8 and carry 4. Tens: $4 \times 6 = 24$, then add the carried 4 to get 28; write 8 and carry 2. Hundreds: $2 \times 6 = 12$, add the carried 2 to get 14; write 14. Reading it back gives 1,488. Check with estimation: $250 \times 6 = 1,500$, which is very close.

Answer: 1,488

PRACTICE

Multiply. Regroup and carry when a product is 10 or more.

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|--------------------|-------|----------------------|-------|
| 1. 34×3 | _____ | 11. $1,234 \times 5$ | _____ |
| 2. 52×4 | _____ | 12. $2,056 \times 7$ | _____ |
| 3. 63×5 | _____ | 13. $3,471 \times 8$ | _____ |
| 4. 127×4 | _____ | 14. $4,205 \times 6$ | _____ |
| 5. 248×6 | _____ | 15. $5,360 \times 9$ | _____ |
| 6. 315×7 | _____ | 16. $6,048 \times 4$ | _____ |
| 7. 406×8 | _____ | 17. $7,125 \times 8$ | _____ |
| 8. 523×9 | _____ | 18. $8,302 \times 7$ | _____ |
| 9. 640×3 | _____ | 19. $9,460 \times 6$ | _____ |
| 10. 708×6 | _____ | 20. $1,875 \times 9$ | _____ |

◆ Word Problems

21. A box holds 144 crayons. A teacher orders 6 boxes for the classroom. How many crayons is that in all? _____
22. A movie theater has 375 seats. If it sells out for 8 shows, how many tickets are sold altogether? _____
23. A school bus travels 186 miles each day. How far does it travel in 5 days? _____
24. A bakery bakes 1,250 loaves of bread each day. How many loaves does it bake in 7 days? _____



Answer Keys

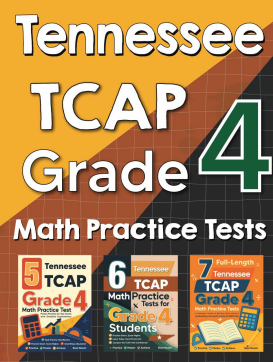
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|------------|-------------------|
| 1. 102 | 13. 27,768 |
| 2. 208 | 14. 25,230 |
| 3. 315 | 15. 48,240 |
| 4. 508 | 16. 24,192 |
| 5. 1,488 | 17. 57,000 |
| 6. 2,205 | 18. 58,114 |
| 7. 3,248 | 19. 56,760 |
| 8. 4,707 | 20. 16,875 |
| 9. 1,920 | 21. 864 crayons |
| 10. 4,248 | 22. 3,000 tickets |
| 11. 6,170 | 23. 930 miles |
| 12. 14,392 | 24. 8,750 loaves |

Step-by-Step Explanations

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| <p>1. $4 \times 3 = 12$ (write 2, carry 1); $3 \times 3 = 9$, $+1 = 10$. That gives 102.</p> <p>2. $2 \times 4 = 8$; $5 \times 4 = 20$. So 208.</p> <p>3. $3 \times 5 = 15$ (write 5, carry 1); $6 \times 5 = 30$, $+1 = 31$. The answer is 315.</p> <p>4. $7 \times 4 = 28$, $2 \times 4 = 8$ plus carry 2 is 10, $1 \times 4 = 4$ plus carry 1 is 5. So 508.</p> <p>5. Carrying through each place gives $248 \times 6 = 1,488$.</p> <p>6. $5 \times 7 = 35$, $1 \times 7 = 7$ plus 3 is 10, $3 \times 7 = 21$ plus 1 is 22. The answer is 2,205.</p> <p>7. $6 \times 8 = 48$, $0 \times 8 = 0$ plus carry 4 is 4, $4 \times 8 = 32$. So 3,248.</p> <p>8. Multiply each digit by 9 and carry: $523 \times 9 = 4,707$.</p> <p>9. $0 \times 3 = 0$, $4 \times 3 = 12$ (write 2, carry 1), $6 \times 3 = 18$ plus 1 is 19. So 1,920.</p> <p>10. $8 \times 6 = 48$, $0 \times 6 = 0$ plus carry 4 is 4, $7 \times 6 = 42$. The answer is 4,248.</p> <p>11. Multiply each of the four digits by 5 and carry: $1,234 \times 5 = 6,170$.</p> <p>12. Working right to left with carries gives 14,392.</p> | <p>13. Multiply each digit by 8: $3,471 \times 8 = 27,768$.</p> <p>14. Carry carefully through each place: the answer is 25,230.</p> <p>15. $5,360 \times 9 = 48,240$ after multiplying each digit and carrying.</p> <p>16. Multiply each digit by 4: $6,048 \times 4 = 24,192$.</p> <p>17. Working through each place gives the round answer 57,000.</p> <p>18. Multiply each digit by 7 and carry: $8,302 \times 7 = 58,114$.</p> <p>19. Carry through each column: $9,460 \times 6 = 56,760$.</p> <p>20. Multiply each digit by 9: $1,875 \times 9 = 16,875$.</p> <p>21. Multiply the crayons per box by the number of boxes: $144 \times 6 = 864$ crayons.</p> <p>22. Multiply seats by shows: $375 \times 8 = 3,000$ tickets.</p> <p>23. Multiply the daily miles by 5: $186 \times 5 = 930$ miles.</p> <p>24. Multiply the daily loaves by 7: $1,250 \times 7 = 8,750$ loaves.</p> |
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