

Name: _____

MULTIPLYING DECIMALS BY WHOLE NUMBERS



1. When multiplying decimals, **ignore the decimal point** at first and treat the numbers as whole numbers.
2. Perform the multiplication as you would with whole numbers.
3. **Count the total number of decimal places** in the decimal number(s) in the question.
4. Place the decimal point in the answer to **match the total decimal places in the question**.

Hint: This method also works for decimal \times decimal calculations. If you feel confident, give it a try! For this worksheet, we'll focus on decimal \times whole number calculations.

Example

$$3.2 \times 6$$

- **Ignore** the decimal point. Calculate $32 \times 6 = 192$.
- The number 3.2 has **1 decimal place**.
- Place the decimal point in the answer: **19.2**.

Now try these:

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|-------------------|--------------------|---------------------|---------------------|---------------------|
| 1. 2.4×5 | 6. 3.5×9 | 11. 12.3×4 | 16. 23.5×6 | 21. 11.6×4 |
| 2. 6.7×4 | 7. 4.8×6 | 12. 10.8×7 | 17. 19.4×7 | 22. 13.2×7 |
| 3. 8.3×7 | 8. 9.6×2 | 13. 14.6×2 | 18. 15.2×8 | 23. 16.8×5 |
| 4. 1.9×6 | 9. 7.4×5 | 14. 9.7×9 | 19. 26.3×5 | 24. 21.4×3 |
| 5. 5.2×3 | 10. 2.9×8 | 15. 18.5×3 | 20. 22.8×4 | 25. 19.9×8 |

Answers:

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|---------|----------|----------|-----------|-----------|
| 1. 12 | 6. 31.5 | 11. 49.2 | 16. 141 | 21. 46.4 |
| 2. 26.8 | 7. 28.8 | 12. 75.6 | 17. 135.8 | 22. 92.4 |
| 3. 58.1 | 8. 19.2 | 13. 29.2 | 18. 121.6 | 23. 84 |
| 4. 11.4 | 9. 37 | 14. 87.3 | 19. 131.5 | 24. 64.2 |
| 5. 15.6 | 10. 23.2 | 15. 55.5 | 20. 91.2 | 25. 159.2 |