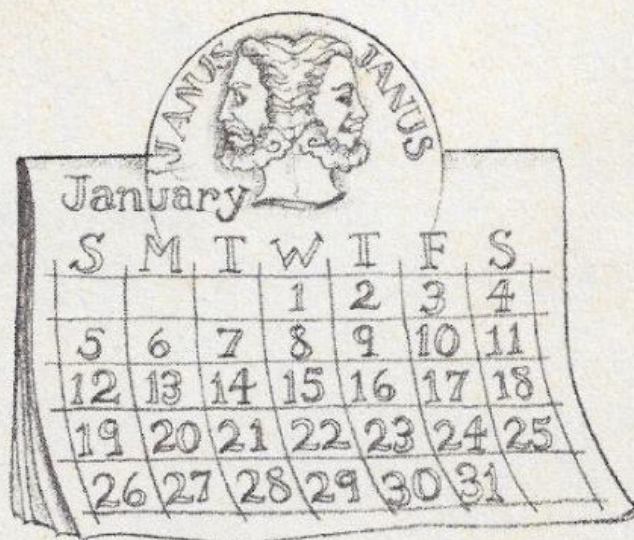# Multiplying by 2-Digit Numbers

January, usually the coldest month of the year, is named for the Roman god Janus. How many hours are there in the month of January?

We want to know the total number of hours in January.

January has _____ days.

We know that there are _____ hours in 1 day.

To find the total number of hours, we multiply _____ by _____.

Multiply by the ones.	Multiply by the tens.	Add the products.

$$\begin{array}{r} 31 \\ \times\ 24 \\ \hline 124 \end{array} \leftarrow 4 \times 31$$

$$\begin{array}{r} 31 \\ \times\ 24 \\ \hline 124 \\ 620 \end{array} \leftarrow 20 \times 31$$

$$\begin{array}{r} 31 \\ \times\ 24 \\ \hline 124 \\ +\ 620 \\ \hline 744 \end{array} \leftarrow 24 \times 31$$

There are _____ hours in January.

Getting Started

Multiply.

1. $\begin{array}{r} 23 \\ \times\ 32 \\ \hline \end{array}$ 2. $\begin{array}{r} 42 \\ \times\ 24 \\ \hline \end{array}$ 3. $\begin{array}{r} 50 \\ \times\ 35 \\ \hline \end{array}$ 4. $\begin{array}{r} 64 \\ \times\ 22 \\ \hline \end{array}$

Copy and multiply.

5. 12×14 6. 21×28 7. 53×23 8. 96×11

Multiply.

1. $\begin{array}{r} 32 \\ \times\ 43 \\ \hline \end{array}$	2. $\begin{array}{r} 71 \\ \times\ 56 \\ \hline \end{array}$	3. $\begin{array}{r} 23 \\ \times\ 23 \\ \hline \end{array}$	4. $\begin{array}{r} 75 \\ \times\ 11 \\ \hline \end{array}$
5. $\begin{array}{r} 32 \\ \times\ 32 \\ \hline \end{array}$	6. $\begin{array}{r} 22 \\ \times\ 43 \\ \hline \end{array}$	7. $\begin{array}{r} 61 \\ \times\ 38 \\ \hline \end{array}$	8. $\begin{array}{r} 80 \\ \times\ 49 \\ \hline \end{array}$
9. $\begin{array}{r} 54 \\ \times\ 12 \\ \hline \end{array}$	10. $\begin{array}{r} 62 \\ \times\ 33 \\ \hline \end{array}$	11. $\begin{array}{r} 84 \\ \times\ 21 \\ \hline \end{array}$	12. $\begin{array}{r} 32 \\ \times\ 42 \\ \hline \end{array}$

Copy and multiply.

13. 41×38 14. 24×62 15. 63×33 16. 60×57

17. 76×81 18. 79×51 19. 96×11 20. 23×52

Problem Solving

Solve each problem.

21. How many hours are there in 2 weeks and 5 days?

22. How many inches are there in 25 feet and 11 inches?

23. How many ounces are there in 3 pounds 9 ounces?

24. How many feet are there in 15 yards 2 feet?