

10/3 4-5 Math Goal:

- to learn a new strategy
- choose which is best!

* place value rows



* short cut $\begin{array}{r} 24 \\ \times 36 \\ \hline \end{array}$

* make a list

$$\begin{array}{r} 24 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \times 6 = 120 \\ 4 \times 6 = 24 \\ 20 \times 30 = 600 \\ 4 \times 30 = +120 \\ \hline 864 \end{array}$$

or short cut list

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 104 \end{array}$$

$$\begin{array}{r} 24 \\ \times 3 \\ \hline 72 + 0 \end{array}$$

$$\begin{array}{r} 24 \times 6 = 104 \\ 24 \times 30 = 720 \end{array}$$

Homework**Multiply.**

1.
$$\begin{array}{r} 397 \\ \times 9 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 723 \\ \times 7 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 4,188 \\ \times 3 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 4,294 \\ \times 4 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 67 \\ \times 82 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 56 \\ \times 49 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 36 \\ \times 29 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 87 \\ \times 71 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 28 \\ \times 27 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 37 \\ \times 54 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 63 \\ \times 91 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 73 \\ \times 35 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 46 \\ \times 83 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 57 \\ \times 75 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 94 \\ \times 47 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 66 \\ \times 86 \\ \hline \end{array}$$

Solve.

17. Jamal is building a bed for his dog. The dimensions of the bed are 27 inches by 36 inches. What is the area of the bottom of the bed?

18. Mr. Battle drives 9 miles to work every day. He works 5 days a week. How many miles does he travel to and from work over 52 weeks?



► Solve Real World Problems

Solve.

*Show your
work on your paper
or in your journal.*

21. Pascal wants to read 99 pages every week for 35 weeks.
How many pages will he have read by the end of that time?
How could he use mental math to find the solution?
22. Jenny's garden is 28 feet by 50 feet. What is the area of her garden? How could she use mental math to find the area?
23. Padma has a dining room table whose top is 42 inches wide and 72 inches long. What is the area of the top of her table?
24. The drama club is making punch to sell at the school play. Each batch uses 64 fluid ounces of fruit juice. If they plan to make 18 batches, how much fruit juice will they need?

Write an equation and then solve.

25. Tigers living in Siberia can have home ranges from 190 to 1,500 square miles depending on how plentiful their prey is. If a tiger's range is in the shape of a rectangle that is 47 miles wide by 29 miles long, what is the area of its home range?
26. Paul and John have a stamp collection. They keep their stamps in an album that has 54 pages. There are 24 stamps on each side of each page. How many stamps are in their collection?