

## Multiplying Multiples of 10 Mentally

When we multiply a number by 10, the ones become tens, the tens become hundreds, the hundreds become thousands, ... the tenths become ones, the hundredths become tenths, ....

$$10 \times 457 = 4570$$

$$38 \times 10 = 380$$

$$10 \times \$12.85 = \$128.50$$

To multiply by 20, multiply by 2 and then by 10 because  $20 = 2 \times 10$ .

To multiply by 30, multiply by 3 and then by 10 because  $30 = 3 \times 10$ .

To multiply by 40, multiply by 4 and then by 10 because  $40 = 4 \times 10$ . ...

To multiply by 100, you can multiply by 10 and then by 10 because  $100 = 10 \times 10$ .

Multiply the following mentally.

1.  $10 \times \$1.87 = \underline{\hspace{2cm}}$
2.  $100 \times \$1.87 = \underline{\hspace{2cm}}$
3.  $30 \times \$12 = \underline{\hspace{2cm}}$
4.  $300 \times \$12 = \underline{\hspace{2cm}}$
5.  $3000 \times \$12 = \underline{\hspace{2cm}}$
6.  $2000 \times 7 = \underline{\hspace{2cm}}$
7.  $50 \times 70 = \underline{\hspace{2cm}}$
8.  $500 \times 70 = \underline{\hspace{2cm}}$
9.  $20 \times \$1.30 = \underline{\hspace{2cm}}$
10.  $\$1.30 \times 300 = \underline{\hspace{2cm}}$
11.  $600 \times 90 = \underline{\hspace{2cm}}$
12.  $100 \times 100 = \underline{\hspace{2cm}}$
13.  $400 \times 700 = \underline{\hspace{2cm}}$
14.  $20 \times 41 = \underline{\hspace{2cm}}$
15.  $23 \times 30 = \underline{\hspace{2cm}}$

Make tens in order to multiply the following mentally.

16.  $2 \times 87 \times 5 =$  \_\_\_\_\_

17.  $5 \times 23 \times 2 \times 2 =$  \_\_\_\_\_

18.  $9 \times 2 \times 3 \times 5 =$  \_\_\_\_\_

Multiply mentally.

19.  $40 \times 22 =$  \_\_\_\_\_

20.  $700 \times 80 =$  \_\_\_\_\_

21.  $15 \times 200 =$  \_\_\_\_\_

22.  $100 \times \$12.45 =$  \_\_\_\_\_

23.  $60 \times 100 =$  \_\_\_\_\_

24.  $400 \times 70 =$  \_\_\_\_\_

25.  $5 \times 98 \times 2 =$  \_\_\_\_\_

26.  $5 \times 34 \times 2 \times 2 =$  \_\_\_\_\_

27.  $10 \times 1000 =$  \_\_\_\_\_

28.  $21 \times 300 =$  \_\_\_\_\_

29. Write five more mental multiplication problems that use tens or hundreds. Give them to your neighbor to solve mentally.