

## Set A

pages 95–100

Use basic facts and multiplication properties to multiply by multiples of 10 and 100.

Find  $4 \times 60$ .

$$4 \times 60 = 4 \times (6 \times 10)$$

$$4 \times 60 = (4 \times 6) \times 10$$

$$4 \times 60 = 24 \times 10$$

$$4 \times 60 = 240$$

**Shortcut:** Multiply  $4 \times 6$  and write 1 zero.

Find  $4 \times 600$ .

$$4 \times 600 = 4 \times (6 \times 100)$$

$$4 \times 600 = (4 \times 6) \times 100$$

$$4 \times 600 = 24 \times 100$$

$$4 \times 600 = 2,400$$

**Shortcut:** Multiply  $4 \times 6$  and write 2 zeros.

Find  $4 \times 6,000$ .

$$4 \times 6,000 = 4 \times (6 \times 1,000)$$

$$4 \times 6,000 = (4 \times 6) \times 1,000$$

$$4 \times 6,000 = 24 \times 1,000$$

$$4 \times 6,000 = 24,000$$

**Shortcut:** Multiply  $4 \times 6$  and write 3 zeros.

## Set B

pages 101–106

Use rounding to estimate  $9 \times 1,993$ .

Round 1,993 to 2,000.

$$9 \times 1,993$$



$$9 \times 2,000 = 18,000$$

So,  $9 \times 1,993$  is about 18,000.

Remember when the product of a basic fact ends in zero, the answer will have an extra zero.

1.  $8 \times 60$

2.  $3 \times 10$

3.  $6 \times 50$

4.  $5 \times 300$

5.  $7,000 \times 4$

6.  $2 \times 900$

7.  $80 \times 8$

8.  $400 \times 5$

9.  $30 \times 9$

10.  $5 \times 8,000$

11.  $700 \times 8$

12.  $9,000 \times 6$

13.  $7 \times 9,000$

14.  $5 \times 100$

15.  $20 \times 5$

16.  $5 \times 4,000$

17.  $5 \times 500$

18.  $3 \times 2,000$

Remember to round a three-digit number to the nearest hundred and a four-digit number to the nearest thousand.

Estimate each product.

1.  $8 \times 7,632$

2.  $493 \times 3$

3.  $9,379 \times 5$

4.  $678 \times 6$

5.  $707 \times 4$

6.  $5,703 \times 3$

7.  $483 \times 6$

8.  $6 \times 8,166$