

# Mental Math: Using the Distributive Property

R 2-3

Mr. Braxton bought 26 boxes of bathroom tissue for his company. Each box contains 6 rolls of tissue. How many rolls of tissue did he order altogether?

You can find  $6 \times 26$  using the distributive property with addition or subtraction.

**Use Addition**Split 26 into  $20 + 6$ .

$$6 \times 26 = 6 \times (20 + 6) =$$

$$(6 \times 20) + (6 \times 6) =$$

$$120 + 36 =$$

$$156$$

**Use Addition**Split 26 into  $25 + 1$ .

$$6 \times 26 = 6 \times (25 + 1) =$$

$$(6 \times 25) + (6 \times 1) =$$

$$150 + 6 =$$

$$156$$

**Use Subtraction**Split 26 into  $30 - 4$ .

$$6 \times 26 = 6 \times (30 - 4) =$$

$$(6 \times 30) - (6 \times 4) =$$

$$180 - 24 =$$

$$156$$

Use the distributive property to multiply mentally.

1.  $8 \times 19 =$  \_\_\_\_\_

2.  $7 \times 61 =$  \_\_\_\_\_

3.  $23 \times 101 =$  \_\_\_\_\_

4.  $9 \times 26 =$  \_\_\_\_\_

5.  $40 \times 17 =$  \_\_\_\_\_

6.  $5 \times 350 =$  \_\_\_\_\_

7. There are 16 oz in every pound. How many ounces are there in 5 lb?

---



---



---

8. **Algebra** If  $10 \times 198 = (10 \times m) - (10 \times 2)$ , what is the value of  $m$ ?

---