3.4 Multiplying Decimals

Objective: To multiply decimals



To Multiply Decimals

Step 1: Put the values in a vertical column. (Do not line up the decimals)

Step 2: Multiply as usual

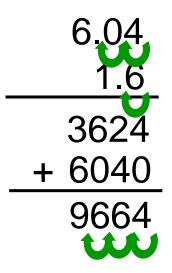
Step 3: Count the total number of digits to the right of the decimals point

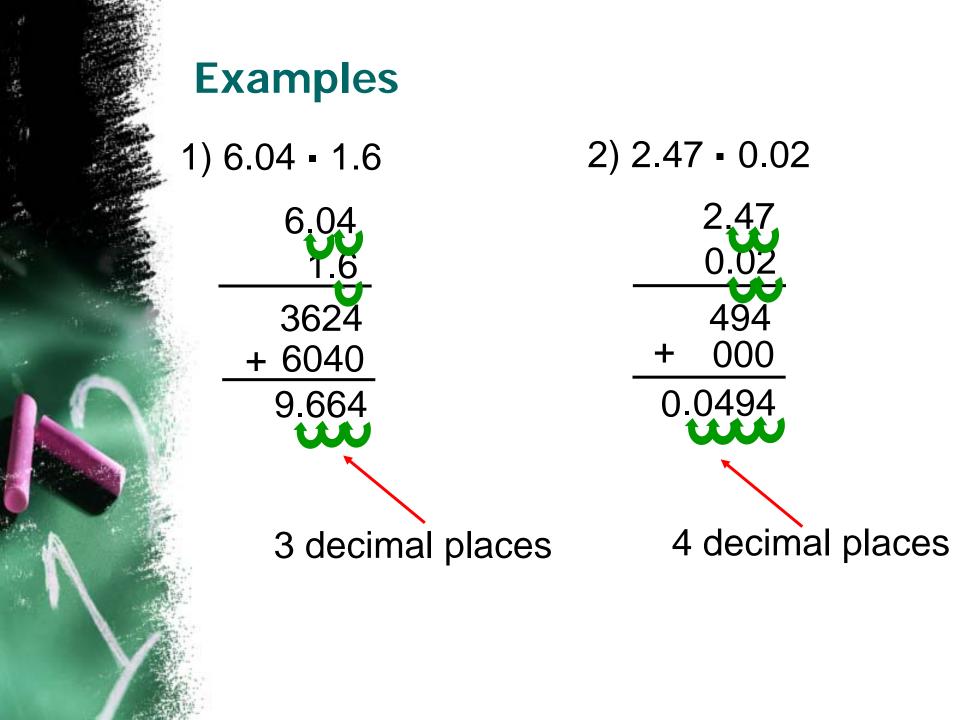
Step 4: Replace the decimal point in the answer



Examples

1) 6.04 • 1.6





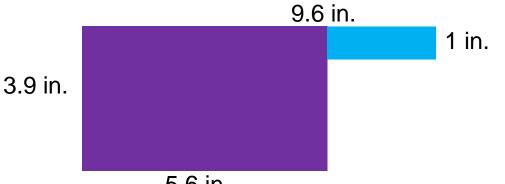


Practice

3) 4.24 • 3.76 4) 13.01 • 8.1 15.9424 105.381

5) 7.4 • 0.037 6) 5 • 2.9 0.2738 14.5

Find the Area of the Figure

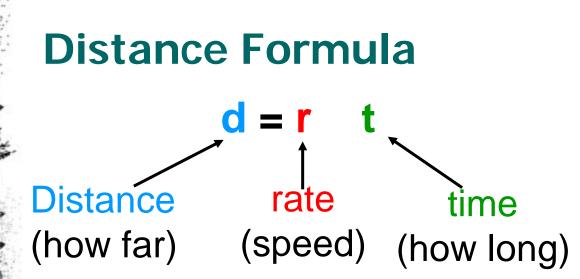


5.6 in.

Find the area of each shape and add them together.

<u>Purple</u>	Blue
3.9 in ▪ 5.6 in. 21.84 in²	4in • 1 in 4 in²
21.84 i	n ² + 4 in ²

25.84 in²



Step 1: List the information you know Step 2: Identify what you **want** to know Step 3: Plug in the information into the formula

Examples

1) rate = 5.2 ft./sec.time = 8.62 sec.distance = ? $\mathbf{d} = \mathbf{r} \mathbf{t}$ **d** = **5.2** • 8.62 5.2 x 8.62 104 3120 + 41600 44.824 ft.

2) rate = 4.5 yards/sec. time = 25.25 sec.distance = ? $\mathbf{d} = \mathbf{r}$ **d** = **4.5** • 25.25 4.5 × 25.25 225 900 22500 + 90000 113.625 yards



Practice

You are traveling to Magic Mountain (from school) at an average speed of 40 miles/hour. It takes 1.25 hours to get there. What is the distance from Downey to Magic Mountain?

> rate = 40 mph. time = 1.25 hours distance = ?

d = r t $d = 40 \cdot 1.25$ 40 × 1.25 200 800 4000 50.00 miles