

## Master 3.23

## Extra Practice 3

**Lesson 3: Multiplying Decimals by a Whole Number**

1. The decimal point is missing in each product.  
Use front-end estimation to place the decimal point:

- a)  $12.306 \times 2 = 24612$
- b)  $3.07 \times 6 = 1842$
- c)  $4.009 \times 7 = 28063$
- d)  $1.0604 \times 3 = 31812$
- e)  $10.521 \times 8 = 84168$
- f)  $9.081 \times 4 = 36324$

2. Estimate to choose the correct product for each multiplication question.

Question	Possible Products		
a) $15.39 \times 5$	7.695	76.95	769.5
b) $2.57 \times 3$	0.771	7.71	77.1
c) $124.21 \times 4$	4.9684	49.684	496.84

3. Multiply.

- a)  $5.04 \times 7$
- b)  $6.384 \times 2$
- c)  $17.009 \times 6$
- d)  $\$17.35 \times 8$
- e)  $1.257 \times 3$
- f)  $0.736 \times 4$

4. Four friends went to Reptile World in Drumheller, Alberta, for the day. The cost of an admission ticket, including tax, was \$7.35. What was the total cost of their admission?
5. Frank saved \$4.35 each week for 8 weeks. He wants to buy a pair of aluminum drumsticks that cost \$35.65, including tax.
- a) Does Frank have enough money? How do you know?
  - b) If your answer to part a is no, how much more money does Frank need?
6. The decimal point in some of these products is in the wrong place. Identify the mistakes, then write each product with the decimal point in the correct place.
- a)  $3.984 \times 3 = 119.52$
  - b)  $73.26 \times 4 = 293.04$
  - c)  $3.001 \times 5 = 150.05$
  - d)  $1.08 \times 5 = 0.54$

**Master 3.24**

**Extra Practice 4**

**Lesson 4: Multiplying a Decimal Less than 1 by a Whole Number**

1. Use Base Ten Blocks.

Multiply.

a)  $0.43 \times 5$

b)  $0.065 \times 2$

c)  $0.24 \times 3$

2. Multiply.

Record each product in the place-value chart.

	Ones	Tenths	Hundredths	Thousandths	Ten-Thousandths
a)					
b)					
c)					
d)					
e)					
f)					

a)  $0.008 \times 7$

b)  $0.041 \times 4$

c)  $0.0209 \times 5$

d)  $0.184 \times 6$

e)  $0.1258 \times 9$

f)  $0.0491 \times 3$

3. Multiply.

What patterns do you see?

a)  $0.8 \times 4$

b)  $0.39 \times 8$

c)  $0.027 \times 6$

$0.08 \times 4$

$0.039 \times 8$

$0.0027 \times 6$

$0.008 \times 4$

$0.0039 \times 8$

$0.00027 \times 6$

4. Leah cut a strip of leather into 7 equal lengths to make bookmarks.

Each piece was 0.232 m long.

a) How long was the strip of leather before Leah cut it?

b) How many cuts did she make?

5. Multiply as you would whole numbers.

Estimate to place the decimal point.

a)  $0.495 \times 6$

b)  $0.0027 \times 9$

c)  $0.093 \times 3$

d)  $0.74 \times 7$

e)  $0.0053 \times 8$

f)  $0.089 \times 5$