

# 4.12

## Decimal Division: Writing Zero in the Dividend

### • Example 1

$$(a) \quad 3.245 \overline{)34.5} \longrightarrow 3.245 \overline{)34.500}$$

Multiply both numbers by 1000. That is, shift the decimal points three places to the right. As you can see, you may have to add zeros in the dividend.

$$(b) \quad 0.34 \overline{)58} \longrightarrow 0.34 \overline{)58.00}$$

Multiply both numbers by 100.

### ● ● ● CHECK YOURSELF 1

Rewrite the division problems so that the divisors are whole numbers.

a.  $3.7 \overline{)5.93}$

b.  $2.58 \overline{)125.7}$

### ● ● ● CHECK YOURSELF ANSWER

1. (a)  $37 \overline{)593}$ ; (b)  $258 \overline{)12570}$

# 4.12 Exercises

Name \_\_\_\_\_

Section \_\_\_\_\_

Date \_\_\_\_\_

## A N S W E R S

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
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17. \_\_\_\_\_
18. \_\_\_\_\_

Divide.

- |                             |                               |
|-----------------------------|-------------------------------|
| 1. $0.123\overline{)11.07}$ | 2. $0.271\overline{)10.84}$   |
| 3. $5.2\overline{)11.622}$  | 4. $6.4\overline{)3.616}$     |
| 5. $0.046\overline{)1.587}$ | 6. $0.52\overline{)3.2318}$   |
| 7. $65.8 \div 2.8$          | 8. $8.82 \div 0.252$          |
| 9. $32.75 \div 0.524$       | 10. $683.7 \div 3.18$         |
| 11. $0.8\overline{)4.28}$   | 12. $0.518\overline{)1.1137}$ |
| 13. $1.971 \div 0.45$       | 14. $0.6\overline{)1.431}$    |
| 15. $3.969 \div 0.54$       | 16. $3.042 \div 0.36$         |
| 17. $0.24\overline{)77.4}$  | 18. $0.075\overline{)2.13}$   |