

3.8

Dividing Decimals by 10, 100, 1000

• Example 1

Divide.

(a) $27.3 \div 10 = 2.73$

Shift one place to the left.

(b) $57.53 \div 100 = 0.5753$

Shift two places to the left.

(c) $39.75 \div 1000 = 0.03975$

Shift three places to the left.

(d) $85 \div 1000 = 0.085$

The decimal after the 85 is implied.

As you can see, we may have to add zeros to correctly place the decimal point.

● ● ● CHECK YOURSELF 1

Divide.

a. $3.84 \div 10$

b. $27.3 \div 1000$

● ● ● CHECK YOURSELF ANSWER

1. (a) 0.384; (b) 0.0273.

3.8 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

Divide.

1. $4.8 \div 10$

2. $3.2 \div 10$

3. $3.538 \div 100$

4. $7.318 \div 100$

5. $84.79 \div 1000$

6. $6.41 \div 100$

7. $9.6 \div 1000$

8. $4.3 \div 1000$

9. $2.67 \div 10$

10. $657.9 \div 100$

11. $5.23 \div 1000$

12. $0.953 \div 10$