

## 2

## CHAPTER REVIEW

## 2.6 Divide Real Numbers

pp. 103–105

## EXAMPLE

Find the quotient.

$$\begin{aligned} \text{a. } 196 \div (-7) &= 196 \cdot \left(-\frac{1}{7}\right) \\ &= -28 \end{aligned}$$

$$\begin{aligned} \text{b. } -\frac{14}{15} \div \left(-\frac{7}{3}\right) &= -\frac{14}{15} \cdot \left(-\frac{3}{7}\right) \\ &= \frac{2}{5} \end{aligned}$$

## EXERCISES

Find the quotient.

43.  $56 \div (-4)$

44.  $-6 \div \frac{3}{13}$

45.  $-\frac{4}{9} \div \left(-\frac{2}{3}\right)$

46. **SCIENCE** A scientist studies the diving abilities of three seals and records the elevations they reach before swimming back up to the surface. Find the mean of the following elevations (in meters) recorded:  $-380$ ,  $-307$ ,  $-354$ .

Simplify the expression.

47.  $\frac{24x - 40}{8}$

48.  $\frac{-36m + 18}{6}$

49.  $\frac{-18n - 9}{-9}$

## EXAMPLES

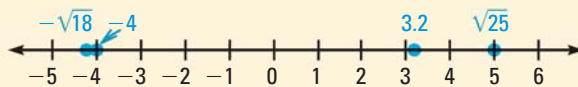
## 2, 3, and 4

on pp. 104–105  
for Exs. 43–49

## 2.7 Find Square Roots and Compare Real Numbers

pp. 110–113

## EXAMPLE

Order the following numbers from least to greatest:  $\sqrt{25}$ ,  $-\sqrt{18}$ ,  $-4$ ,  $3.2$ .From least to greatest, the numbers are  $-\sqrt{18}$ ,  $-4$ ,  $3.2$ , and  $\sqrt{25}$ .

## EXERCISES

Evaluate the expression.

50.  $\sqrt{121}$

51.  $-\sqrt{36}$

52.  $\pm\sqrt{81}$

53.  $\pm\sqrt{225}$

Approximate the square root to the nearest integer.

54.  $\sqrt{97}$

55.  $-\sqrt{48}$

56.  $-\sqrt{142}$

57.  $\sqrt{300}$

Order the numbers in the list from least to greatest.

58.  $-\sqrt{49}$ ,  $-6.8$ ,  $2$ ,  $\sqrt{3}$ ,  $1.58$

59.  $1.25$ ,  $\sqrt{11}$ ,  $-0.3$ ,  $0$ ,  $-\sqrt{4}$

60. Rewrite the following conditional statement in if-then form: "All real numbers are irrational numbers." Tell whether the statement is *true* or *false*. If it is false, give a counterexample.

## EXAMPLES

## 1, 2, 4, and 5

on pp. 110–113  
for Exs. 50–60