1-3 Exercises

go.hrw.com
Homework Help Online
KEYWORD: MA7 1-3
Parent Resources Online
KEYWORD: MA7 Parent

GUIDED PRACTICE

1. Vocabulary How do you find the *reciprocal* of $\frac{1}{2}$?

SEE EXAMPLE 1 p. 20

Find the value of each expression.

2. $-72 \div (-9)$ **3.** $11(-11)$ **4.** $-7.2 \div x$ for $x = 3.6$

SEE EXAMPLE 2 p. 21

Divide.

5. $5 \div \frac{5}{7}$ **6.** $\frac{4}{5} \div \left(-\frac{8}{5}\right)$ **7.** $\frac{2}{3} \div \left(-\frac{1}{3}\right)$ **8.** $\frac{16}{25} \div \frac{4}{5}$

SEE EXAMPLE 3 p. 22

Multiply or divide if possible.

9. $3.8 \div 0$ **10.** $0(-27)$ **11.** $0 \div \frac{2}{3}$ **12.** $\frac{7}{8} \div 0$

SEE EXAMPLE 4 p. 22

13. Entertainment It is estimated that 7 million people saw off-Broadway shows in 2002. Assume that the average price of a ticket was $30. How much money was spent on tickets for off-Broadway shows in 2002?

PRACTICE AND PROBLEM SOLVING

Independent Practice

For Exercises	See Example
14–16	1
17–20	2
21–24	3
25	4

Extra Practice

Skills Practice p. S4
Application Practice p. S28

Find the value of each expression.

14. $-30 \div (-6)$ **15.** $8(-4)$ **16.** $x(-12)$ for $x = -25$

Divide.

17. $\frac{3}{20} \div \left(-\frac{1}{4}\right)$ **18.** $\frac{9}{14} \div \frac{15}{28}$ **19.** $4\frac{1}{2} \div 1\frac{1}{2}$ **20.** $2\frac{3}{4} \div \left(-1\frac{1}{2}\right)$

Multiply or divide if possible.

21. $0 \cdot 15$ **22.** $-0.25 \div 0$ **23.** $0 \div 1$ **24.** $\frac{0}{1} \div 3$

25. Weather A cold front changes the temperature by -3°F each day. If the temperature started at 0°F, what will the temperature be after 5 days?

Multiply or divide.

26. $21 \div (-3)$ **27.** $-100 \div 25$ **28.** $-6 \div (-14)$ **29.** $-6.2(10)$

30. $\frac{1}{2} \div \frac{1}{2}$ **31.** $-3.75(-5)$ **32.** $-12\frac{1}{2}(-3)$ **33.** $17\left(\frac{1}{17}\right)$

34. Critical Thinking What positive number is the same as its reciprocal?

Evaluate each expression for $a = 4$, $b = -3$, and $c = -2$.

35. ab **36.** $a \div c$ **37.** bc **38.** $c \div a$

Let p represent a positive number, n represent a negative number, and z represent zero. Tell whether each expression is positive, negative, zero, or undefined.

39. pn **40.** pnz **41.** $\frac{n}{p}$ **42.** $-pz$

43. $-\frac{p}{n}$ **44.** $-(pn)$ **45.** $\frac{pn}{z}$ **46.** $\frac{z}{n}$