1.23 Division: Two Digits Divided by One Digit

• Example 1

Divide:

$6\overline{)78}$

We begin by dividing the ten's in 78 by 6 and subtracting.

$$\begin{array}{r} 1 \\ 6\overline{)78} \\ \underline{6} \\ 1 \end{array}$$

To check: $6 \cdot 1 + 1 = 7$
Next, we bring down the one's in 78

$$\begin{array}{r} 1 \\ 6\overline{)78} \\ \underline{6} \\ 18 \end{array}$$

then divide 18 by 6 which is 3.

$$\begin{array}{r} 13 \\ 6\overline{)78} \\ \underline{6} \\ 18 \\ \underline{18} \\ 0 \end{array}$$ The remainder is zero.

To check: $3 \cdot 6 + 0 = 18$

CHECK YOURSELF 1

Divide:

$5\overline{)85}$

CHECK YOURSELF ANSWER

1. 17.

© 2000 McGraw-Hill Companies

1.23 Exercises

Name

Section Date

ANSWERS

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.

Divide using long division, and check your work.

1. $5\overline{)85}$ **2.** $9\overline{)72}$ **3.** $6\overline{)72}$

4. $4\overline{)84}$ **5.** $5\overline{)70}$ **6.** $3\overline{)87}$

7. $4\overline{)92}$ **8.** $3\overline{)42}$ **9.** $56 \div 8$

10. $9\overline{)54}$ **11.** $6\overline{)54}$ **12.** $81 \div 9$

Solve the following applications.

13. Recreation. Joaquin is putting pictures in an album. He can fit 8 pictures on each page. If he has 72 pictures, pages will he fill?

14. Counting. Kathy is separating a deck of 42 cards into 6 equal piles. How many piles will she have?

© 2000 McGraw-Hill Companies