$$\begin{array}{r} {}^{3}\not{1}\,{}^{5+}\not{4}\,2_5 \\ -\ 3\ 3_5 \\ \hline 4_5 \end{array}$$

Borrow 5^1 from the second column.

$(5 + 2) - 3 = 4$

No conversion necessary.

$$\begin{array}{r} {}^{3}\not{1}\,{}^{5+}\not{4}\,2_5 \\ -\ 3\ 3_5 \\ \hline 0\ 4_5 \end{array}$$

$3 - 3 = 0$

No conversion necessary.

$$\begin{array}{r} {}^{3}\not{1}\,{}^{5+}\not{4}\,2_5 \\ -\ 3\ 3_5 \\ \hline 1\ 0\ 4_5 \end{array}$$

$1 - 0 = 1$

No conversion necessary.

Thus, $142_5 - 33_5 = 104_5$.

7.R.2 Exercises

Concept Check

True/False. Determine whether each statement is true or false. If a statement is false, explain how it can be changed so the statement will be true. (**Note:** There may be more than one acceptable change.)

1. A polygon is a geometric figure in a plane with two or more sides.

2. To find the perimeter of a rectangle, add the lengths of the four sides.

3. When subtracting, sometimes the digit being subtracted is larger than the digit it is being subtracted from and so "carrying" must occur.

4. If your bank account has a balance of \$743 and you want to withdraw \$115, you would use subtraction to find that the new balance would be \$628.

Practice

Simplify.

5. $\begin{array}{r} 15 \\ +43 \\ \hline \end{array}$

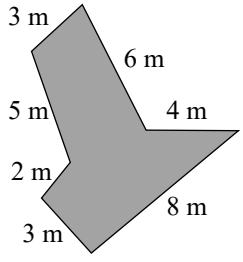
6. $\begin{array}{r} 981 \\ +46 \\ \hline \end{array}$

7. $\begin{array}{r} 275 \\ -131 \\ \hline \end{array}$

8. $\begin{array}{r} 543 \\ -167 \\ \hline \end{array}$

Calculate the perimeter of the geometric figure.

9.



Applications

Solve.

10. The Magley family has the following monthly budget: $815 mortgage; $69 electric; $47 water; and $122 phone bills (including cell phones). What is the family's budget for each month for these expenses?

11. A couple sold their house for $135,000. They paid the realtor $8100, and other expenses of the sale came to $800. If they owed the bank $87,000 for the mortgage, what were their net proceeds from the sale?

Writing & Thinking

12. List three properties of addition and give an example of each.

13. Explain when "carrying" should be used in addition with whole numbers and give an example.