

1.21

Multiplication of a 2-Digit Number by a 1-Digit Number with Carrying

• Example 1

$$3 \times 25 = ?$$

Step 1

$$\begin{array}{r} 1 \leftarrow \text{Carry} \\ 25 \\ \times 3 \\ \hline 5 \end{array}$$

Multiplying 3×5 gives us 15 ones. Write 5 ones and carry 1 ten.

Step 2

$$\begin{array}{r} 1 \\ 25 \\ \times 3 \\ \hline 75 \end{array}$$

Now multiply 3×2 tens and add the 1 that was carried to get 7, the tens digit of the product.

● ● ● CHECK YOURSELF 1

Multiply.

$$\begin{array}{r} 34 \\ \times 6 \\ \hline \end{array}$$

• Example 2

Peter earns \$4 for every case of oranges he sells. How much has he earned when he sells 14 cases of oranges?

To find Peter's total earnings, multiply the number of cases (14) by his earnings per case (\$4).

$$14 \times 4 = 56$$

Peter has earned \$56 selling oranges.

● ● ● CHECK YOURSELF 2

Dominique's income from her summer job is \$245 per week. How much will she make in 9 weeks?

● ● ● CHECK YOURSELF ANSWERS

1. 204. 2. \$2205.
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1.21 Exercises

Name _____

Section _____

Date _____

A N S W E R S

Multiply.

1.
$$\begin{array}{r} 48 \\ \times 4 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 53 \\ \times 5 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 58 \\ \times 3 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 15 \\ \times 7 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 13 \\ \times 8 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 59 \\ \times 6 \\ \hline \end{array}$$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Solve the following applications.

7. **Counting.** There are 18 boys in a Cub Scout pack. Each boy brings 6 packs of baseball cards to a meeting. How many packs of baseball cards are there at the meeting?

8. **Payroll deduction.** Kay has \$5 taken from each paycheck as a contribution to United Charities. If she receives 26 paychecks a year, what is her annual contribution?

9. **Number of seats.** A small seminar room contains 12 rows of seats. Each row contains 7 seats. How many seats are in the room?