

Name: _____

Skill: Multiplying 2-Digit by 2-Digit Numbers

Find the Mistakes

- a. There is a mistake in the way this math problem was solved.

$$\begin{array}{r} \overset{x}{54} \\ \times 23 \\ \hline \overset{1}{162} \\ + 1,080 \\ \hline 1,232 \end{array}$$

Solve the math problem correctly.

Explain the error. _____

- b. There is a mistake in the way this math problem was solved.

$$\begin{array}{r} \overset{x}{99} \\ \times 12 \\ \hline \overset{1}{188} \\ + 990 \\ \hline 1,178 \end{array}$$

Solve the math problem correctly.

Explain the error. _____

ANSWER KEY

Find the Mistakes

- a. There is a mistake in the way this math problem was solved.

$$\begin{array}{r} \overset{x}{54} \\ \times 23 \\ \hline \overset{1}{162} \\ + 1,080 \\ \hline 1,232 \end{array}$$

Solve the math problem correctly.

$$\begin{array}{r} \overset{x}{54} \\ \times 23 \\ \hline \overset{1}{162} \\ + 1,080 \\ \hline 1,242 \end{array}$$

Explain the error.

The person who solved this problem made a mistake when they were adding the two partial products. In the tens place, 6 plus 8 equals 14, not 13. There should be a 4 in the tens place of the answer.

- b. There is a mistake in the way this math problem was solved.

$$\begin{array}{r} \overset{x}{99} \\ \times 12 \\ \hline \overset{1}{188} \\ + 990 \\ \hline 1,178 \end{array}$$

Solve the math problem correctly.

$$\begin{array}{r} \overset{x}{99} \\ \times 12 \\ \hline \overset{1}{198} \\ + 990 \\ \hline 1,188 \end{array}$$

Explain the error.

The person who solved this problem made a mistake after they multiplied the 9 in the tens place of the first factor by the 2 in the ones place of the second factor. They forgot to add the one that they carried.