

Assessment : Section B Checkpoint

Problem 1

Goals Assessed

- Divide multi-digit whole numbers using strategies based on place value, properties of operations, and relationship between multiplication and division.

Statement

Find the value of $966 \div 23$. Explain or show your reasoning.

Solution

42

Sample response:

$$\begin{array}{r}
 \boxed{42} \\
 2 \\
 20 \\
 20 \\
 23 \overline{)966} \\
 \underline{-460} \\
 506 \\
 \underline{-460} \\
 46 \\
 \underline{-46} \\
 0
 \end{array}$$

Problem 2

Goals Assessed

- Divide multi-digit whole numbers using strategies based on place value, properties of operations, and relationship between multiplication and division.

Statement

A toolbox is shaped like a rectangular prism. The length is 14 inches and the height is 7 inches. If the volume of the toolbox is 1,176 cubic inches, what is its width? Explain or show your reasoning.

Solution

12 inches

Sample response:

$$14 \times 7 = 98$$

$$\begin{array}{r} \boxed{12} \\ 2 \\ 10 \\ 98 \overline{)1,176} \\ \underline{-980} \\ 196 \\ \underline{-196} \\ 0 \end{array}$$