Unit 7 Vocabulory and Big leasos Rotios and Rones winh frocions, Decimols, ond Percents

Compore ranios. For two ratios, to state whether the amount of one quantitity in a
ratio is less than, greater than, or equal to the same quantity in the other ratio when the value of the other quantity in the ratios is the same.

## 

 which a table is used to solve proportions.```
Example: In this example, the unit
rate, \(\frac{3}{4}\) or \(\frac{3}{4}\) to 1 , is used to solve the proportion 3:4 \(=x: 5\).
```

$$
\begin{aligned}
& \div 4\left(\begin{array}{|c|c|}
\hline 3 & 4 \\
\hline 5\left(\begin{array}{|c|}
\hline \frac{3}{4} \\
\hline \frac{15}{4} \\
\hline
\end{array}\right. \\
\hline
\end{array}\right) \div 4 \\
& \hline .5
\end{aligned}
$$

Cross Multiplicarions a method used for solving proportions based on the fact that in a proportion, the cross-products are equal.

Example: $\frac{10}{15}=\frac{18}{27}$ is a proportion. The cross-products are equal.

$$
\frac{10}{15}<\frac{18}{28}
$$

$$
18 \cdot 15=10 \cdot 27
$$

Tope Diogrom: a drawing that looks qke a segment of tape used to illustrate number relationships. also known as a strip diagram, bar model, fraction strip, or length model.

Example:



Multiplicarive Comparisons a way of comparing two quantities using as manyor two amounts using as much. a multiplicative comparison can be expressed in two ways.

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Example: When comparing 2 circles and
    6 \text { squares, the comparison can be}
    expressed as:
        There are 3 times as many squares
        as circles.
            or
        There are }\frac{1}{3}\mathrm{ as many circles as
        squares.
```

Percemino dn amount out of a hundred or per hundred.

Examples: $34 \%=\frac{34}{100}$

$$
124 \%=\frac{124}{100}
$$

Liquid Volumes a measure of how much a container can hold. also called capacity.

