

7.2 – RATIO, PROPORTION, & SIMILARITY

_____ : quotient of two numbers, $a \div b$, usually written as a to b , $a : b$, or $\frac{a}{b}$, in simplest form.

EXAMPLES

Express each ratio in simplest form.

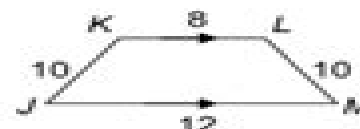
_____ 1) JK to KL

_____ 2) $\frac{JK + KL}{ML}$

_____ 3) $m\angle K : m\angle L$

_____ 4) $m\angle M : m\angle J$

_____ 5) KL : perimeter $JKLM$



For #1-5

Ratios can be used to compare numbers, such as lengths or angle measures, but the quantities being compared **must be in the same units**.

_____ 6) A sheet of plywood is 0.5 m long by 35 cm wide. Find the ratio of length to width.

Express each ratio in simplest form.

_____ 7) $\frac{15f}{20f}$

_____ 8) $\frac{4x}{x^2}$

Write each ratio if $x = 2$, $y = 3$, and $z = 4$.

_____ 9) x to y

_____ 10) $x + z$: y

_____ 11) $x : x + y$; $x + z$

_____ 12) Two complementary angles have measures in the ratio of 2:7. Find the measure of each angle.

_____ 13) The measures of the five angles of a pentagon are in the ratio 11:7:5:4:3. Find the measure of each angle.

Test 25 Ratio Proportion And Similarity Answer Key

Siddappa N.Byrareddy



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