DIRECT AND INVERSE PROPORTION Ratio and Proportion

Key Concepts

Variables are **directly proportional** when the **ratio is constant** between the quantities.

Variables are inversely proportional when one quantity increases in proportion to the other decreasing.

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42 R8 R13

Direct proportion:

 $P = 30 \div \frac{5}{8} = 48$

 $\times \frac{5}{2} = 12.5$

Key Words

Direct

Inverse

Proportion

Divide

Multiply Constant

Value of A32P5620Value of B203035RRatio constant: $20 \div 32 = \frac{5}{8}$ From A to B we will multiply by $\frac{5}{8}$.From B to A we will divide by $\frac{5}{8}$.

R= 20

Complete each table:

1) Direct proportion

Value of A

Value of B

5

9

proportion-

Examples

72

45



ANSWERS 1) P = 16, Q = 39.6 2) P = 12, Q = 2