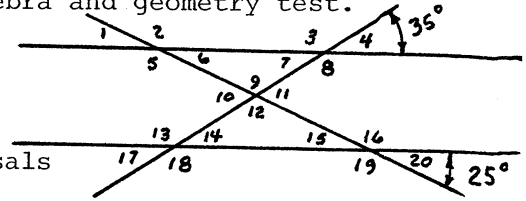


STUDY GUIDE FOR QUALIFICATION TEST

This guide is for use in preparing for the required algebra and geometry test.

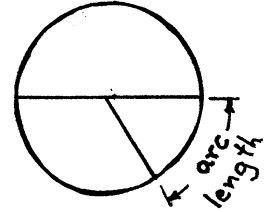
GEOMETRY

Relations of Angles between Parallel Lines and Transversals

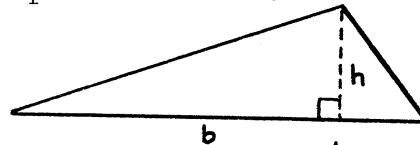


Elements of a Circle: Area, Circumference, Radius, Diameter

Figuring the Arc Length of a Fractional part of a Circle

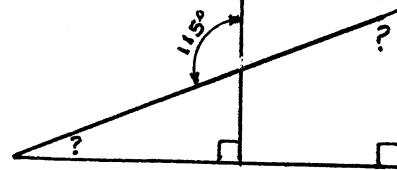


Elements and Types of Triangles



Elements of an Isosceles Triangle

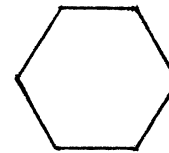
Figuring Angles in a Right Triangle



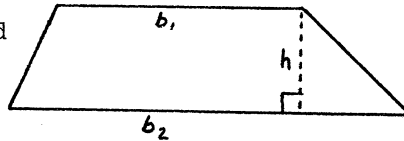
Figuring the Sides of a Right Triangle

Comparing Angles in Similar Right Triangles

Elements of a Regular Polygon, Sum of Interior Angles



Elements of a Trapezoid



ALGEBRA

Multiplying and Dividing Numbers by Use of Exponents  $A^5 \cdot A^7 = ?$

$$\frac{A^{17}}{A^8} = ?$$

Use of Decimals  $3.66 \times 1.007 = ?$

Convert a Linear Distance from a Fraction to a Decimal  $57' - 11\frac{7}{16}'' = 57.95'$

Convert a Linear Distance from a Decimal to a Fraction  $14.81' = 14' - 9\frac{3}{4}''$

Use of Ratio and Proportions  $\frac{4}{20} = \frac{?}{60}$

Subtracting Negative Numbers subtract  $-13.236$  from  $-15.418$

Subtracting Unlike Algebraic Terms subtract  $6x - 4y$  from  $-4x + 4y$

Factoring Quadratic Equations  $A^2 + 9A - 36 = 0$

Solving Quadratic Equations solve for A after factoring

Solving Simultaneous Equations by Subtracting or Addition 
$$\begin{array}{r} 16A - 14B = 76 \\ -8A - 18B = 12 \\ \hline \end{array}$$

Following a Given Formula

Solving Written Problems with Given Formulas