Ohio Grade 8 Mathematics Achievement Test Reference Sheet

Information that may be needed to solve problems on the Mathematics Test:

Area Formulas

Volume Formulas

parallelogram
$$A = bh$$

$$V = \frac{1}{3} \pi r^2 h$$

rectangle
$$A = Iw$$

$$A = Iw$$

cylinder
$$V = \pi r^2 h$$

trapezoid
$$A = \frac{1}{2} h (b_1 + b_2)$$

pyramid
$$V = \frac{1}{3} Bh$$

triangle
$$A = \frac{1}{2}bh$$

rectangular
$$V = lwh$$
 prism

$$V = Iwh$$

$$V = Bh$$

Circle Formulas

$$C = 2\pi r$$

$$\pi \approx 3.14 \text{ or } \frac{22}{7}$$
A = πr^2

sphere
$$V = \frac{4}{3} \pi r^3$$

Distance Formula

$$d = \sqrt{(X_2 - X_1)^2 + (y_2 - y_1)^2}$$