

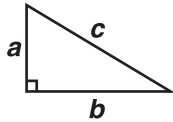
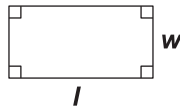
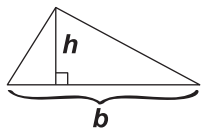
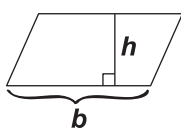
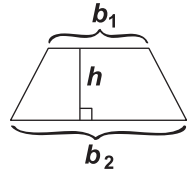
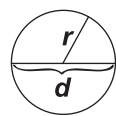
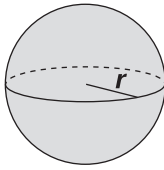
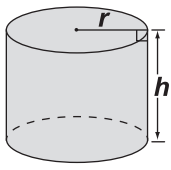
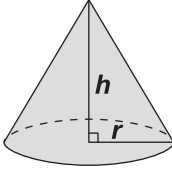
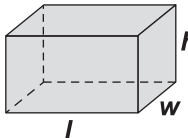
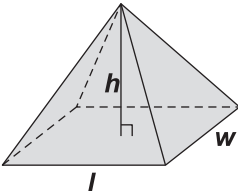


New Jersey Assessment of Skills and Knowledge Grade 8 MATHEMATICS REFERENCE SHEET

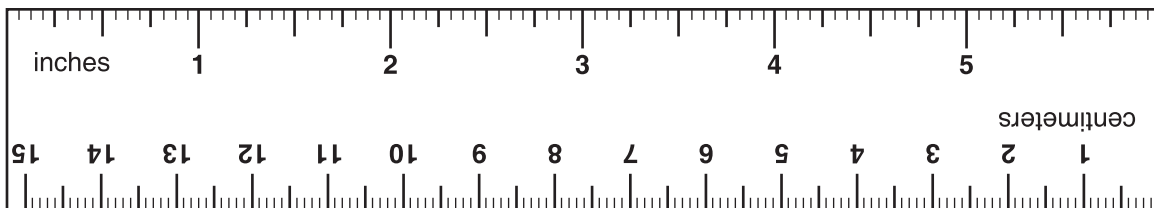
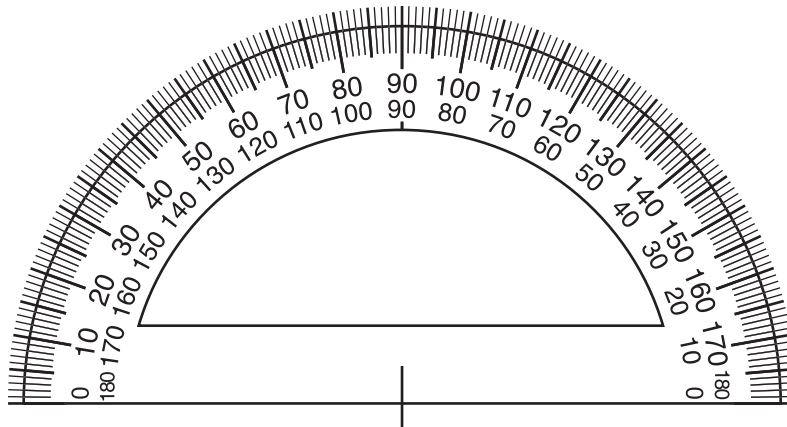
Use the information below, and on the back, to answer questions on the Mathematics section of the Grade Eight Assessment of Skills and Knowledge (NJ ASK 8).

Distance = rate \times time

The sum of the measures of the interior angles of a triangle = 180°

<p>Pythagorean Formula</p> $c^2 = a^2 + b^2$ 	<p>Use the following equivalents for your calculations:</p> $\pi \approx 3.14 \text{ or } \frac{22}{7}$	<p>Rectangle</p> <p>Area = lw</p> <p>Perimeter = $2l + 2w$</p> 
<p>Triangle</p> <p>Area = $\frac{1}{2}bh$</p> 	<p>Parallelogram</p> <p>Area = bh</p> 	<p>Trapezoid</p> <p>Area = $\frac{1}{2}h(b_1 + b_2)$</p> 
<p>Circle</p> <p>Area = πr^2</p> <p>Circumference = $2\pi r$ = πd</p> 	<p>Sphere</p> <p>Volume = $\frac{4}{3}\pi r^3$</p> 	<p>Cylinder</p> <p>Volume = πr^2h</p> 
<p>Cone</p> <p>Volume = $\frac{1}{3}\pi r^2h$</p> 	<p>Rectangular Prism</p> <p>Volume = $lwh = Bh$</p> <p>Surface Area = $2lw + 2wh + 2lh$</p> 	<p>Pyramid</p> <p>Volume = $\frac{1}{3}lwh$</p> 

(OVER) \rightarrow



USE THE FOLLOWING EQUIVALENTS FOR YOUR CALCULATIONS

1 mile = 5,280 feet

1 cup = 8 fluid ounces

1 pound = 16 ounces

1 mile = 1,760 yards

1 pint = 2 cups

1 ton = 2,000 pounds

1 inch = 2.54 centimeters

1 quart = 2 pints

1 pound = 0.454 kilogram

1 meter = 39.37 inches

1 gallon = 4 quarts

1 kilogram = 2.2 pounds

1 mile = 1.609 kilometers

1 gallon = 3.785 liters

1 kilometer = 0.62 mile

1 liter = 0.264 gallon

1 kilometer = 1000 meters

1 liter = 1000 cubic centimeters

(OVER) →