



New Jersey Assessment of Skills and Knowledge Grade 7 MATHEMATICS REFERENCE SHEET

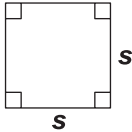
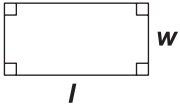
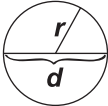
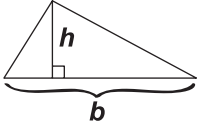
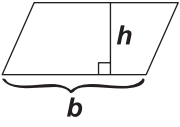
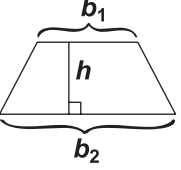
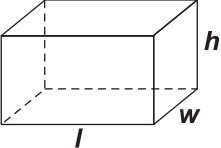
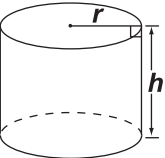
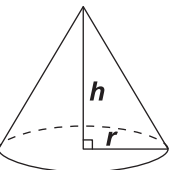
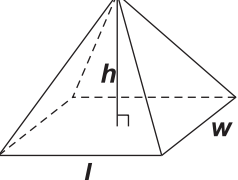
Use the information below to answer questions on the
Mathematics section of the Grade Seven Assessment of Skills and Knowledge (NJ ASK 7).

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

Distance = rate \times time

Simple Interest Formula: $A = P + Prt$ **Compound Interest Formula:** $A = P(1 + r)^t$

A = amount after t years; P = principal; r = annual interest rate; t = number of years

$\pi \approx 3.14$ or $\frac{22}{7}$	<p>Square Area = s^2 Perimeter = $4s$</p> 	<p>Rectangle Area = lw Perimeter = $2l + 2w$</p> 
<p>Circle Area = πr^2 Circumference = $2\pi r$ = πd</p> 	<p>Triangle Area = $\frac{1}{2}bh$</p> 	<p>Parallelogram Area = bh</p> 
<p>Trapezoid Area = $\frac{1}{2}h(b_1 + b_2)$</p> 	<p>Rectangular Prism Volume = lwh Surface Area = $2lw + 2wh + 2lh$</p> 	<p>Cylinder Volume = πr^2h Surface Area = $2\pi rh + 2\pi r^2$</p> 
<p>Cone Volume = $\frac{1}{3}\pi r^2h$</p> 	<p>Pyramid Volume = $\frac{1}{3}lwh$</p> 	

USE THE FOLLOWING EQUIVALENTS FOR YOUR CALCULATIONS

<p>60 seconds = 1 minute 60 minutes = 1 hour 24 hours = 1 day 7 days = 1 week 12 months = 1 year 365 days = 1 year</p>	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">12 inches = 1 foot</td> <td style="width: 33%;">10 millimeters = 1 centimeter</td> </tr> <tr> <td>3 feet = 1 yard</td> <td>100 centimeters = 1 meter</td> </tr> <tr> <td>36 inches = 1 yard</td> <td>10 decimeters = 1 meter</td> </tr> <tr> <td>5,280 feet = 1 mile</td> <td>1000 meters = 1 kilometer</td> </tr> <tr> <td>1,760 yards = 1 mile</td> <td></td> </tr> </table>	12 inches = 1 foot	10 millimeters = 1 centimeter	3 feet = 1 yard	100 centimeters = 1 meter	36 inches = 1 yard	10 decimeters = 1 meter	5,280 feet = 1 mile	1000 meters = 1 kilometer	1,760 yards = 1 mile	
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1,760 yards = 1 mile											
<p>8 fluid ounces = 1 cup 2 cups = 1 pint 2 pints = 1 quart 4 quarts = 1 gallon 1000 milliliters (mL) = 1 liter (L)</p>	<p>16 ounces = 1 pound 2,000 pounds = 1 ton 1000 milligrams = 1 gram 100 centigrams = 1 gram 10 grams = 1 dekagram 1000 grams = 1 kilogram</p>										