



# New Jersey Assessment of Skills and Knowledge

## Grade 8

### MATHEMATICS REFERENCE SHEET

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





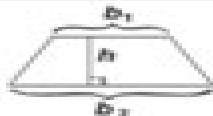
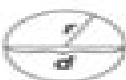
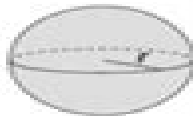



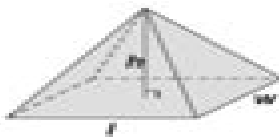
The sum of the measures of the interior angles of any  $n$ -sided polygon =  $(n - 2)180^\circ$

**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

The number of combinations of  $r$  objects you can choose from a set of  $n$  objects is  $\frac{n!}{(n-r)!r!}$

The number of permutations of size  $r$  taken from  $n$  objects is  $\frac{n!}{(n-r)!}$

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

(OVER) →

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