



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)





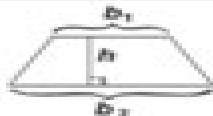
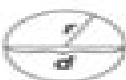
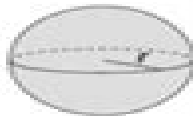



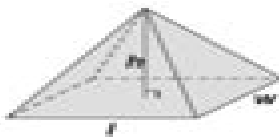
The sum of the measures of the interior angles of any n -sided polygon = $(n - 2)180^\circ$

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 $\frac{n!}{(n-r)!}$

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

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