



# 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)





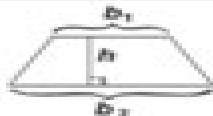
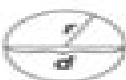
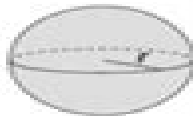



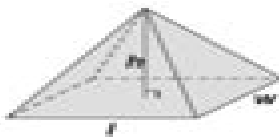
The sum of the measures of the interior angles of any  $n$ -sided polygon =  $(n - 2)180^\circ$

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

(OVER) →

# Nj Ask 5 Math Reference Sheet

**Minjie Lin**



## **Nj Ask 5 Math Reference Sheet:**

## Whispering the Strategies of Language: An Mental Journey through **Nj Ask 5 Math Reference Sheet**

In a digitally-driven earth wherever displays reign great and quick interaction drowns out the subtleties of language, the profound secrets and mental subtleties concealed within phrases usually move unheard. Yet, set within the pages of **Nj Ask 5 Math Reference Sheet** a fascinating literary value pulsing with fresh emotions, lies a fantastic journey waiting to be undertaken. Composed by a talented wordsmith, that wonderful opus invites readers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within the fabric of each word. Within the mental depths of this poignant review, we will embark upon a sincere exploration of the book is key styles, dissect its captivating publishing type, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

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