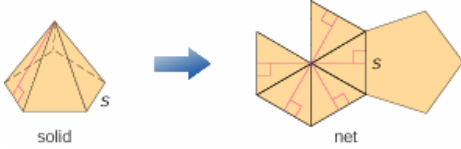


Glossary Term	Definition
Multiplication Property for Inequalities	For all numbers $a$ , $b$ , and $c$ , the following are true. 1. If $c$ is positive and $a < b$ , then $ac < bc$ , $c \neq 0$ , and if $c$ is positive and $a > b$ , then $ac > bc$ , $c \neq 0$ . 2. If $c$ is negative and $a < b$ , then $ac > bc$ , $c \neq 0$ , and if $c$ is negative and $a > b$ , then $ac < bc$ , $c \neq 0$ .
multiplicative identity	For any number $a$ , $a \cdot 1 = 1 \cdot a = a$ . Example: $4 \cdot 1 = 1 \cdot 4 = 4$
multiplicative inverse	The number that when multiplied by a given number results in a product of one. Example: The <i>multiplicative inverse</i> of 4 is $\frac{1}{4}$ because $4 \times \frac{1}{4} = 1$ .
Multiplicative Inverse Property	For every nonzero number $\frac{a}{b}$ , where $a, b \neq 0$ , there is exactly one number $\frac{b}{a}$ such that $\frac{a}{b} \cdot \frac{b}{a} = 1$ .
Multiplicative Property of Equality	If you multiply each side of an equation by the same number, the two sides remain equal. For any numbers $a$ , $b$ , and $c$ , if $a = b$ , then $a \cdot c = b \cdot c$ . Example: If $x = 3$ , then $x \cdot 5 = 3 \cdot 5$ .
Multiplicative Property of Zero	For any number $a$ , $a \cdot 0 = 0 \cdot a = 0$ . Example: $7 \cdot 0 = 0 \cdot 7 = 0$
multi-step equations	Equations with more than one operation.
mutually exclusive events	Two or more events whose outcomes can never be the same.
natural logarithm	Logarithms with base $e$ , written $\ln x$ .
natural logarithmic function	$y = \ln x$ , the inverse of the natural base exponential function $y = e^x$ .
natural numbers	The set $\{1, 2, 3, \dots\}$ .
negation	The negative of a statement.
negative correlation	In a scatter plot, as $x$ increases, $y$ decreases.
negative integer	Any integer that is less than zero.
negative number	Any number that is less than zero.
net	A two-dimensional representation of a three-dimensional figure that can be folded to form the figure.  
$n$ -gon	A polygon with $n$ sides.
nonagon	A polygon having nine sides.
noncollinear points	Three or more points that do not lie on the same line. In the figure, $A$ , $B$ , and $C$ are <i>noncollinear points</i> .  