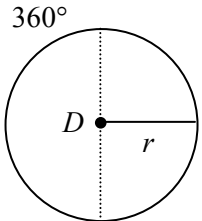
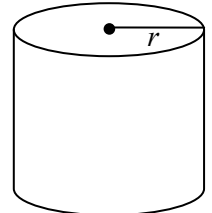
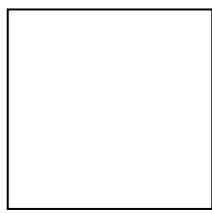
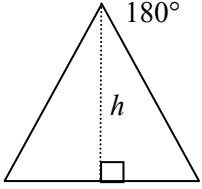
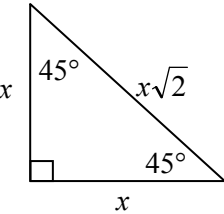
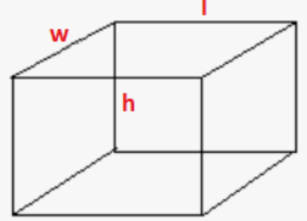
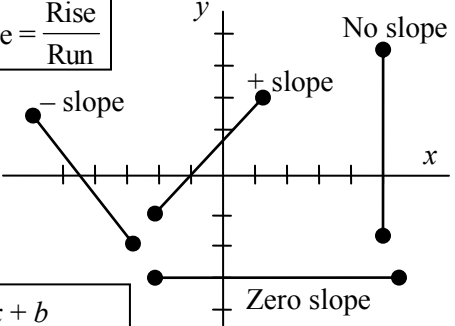
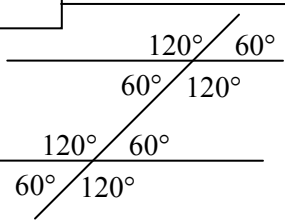
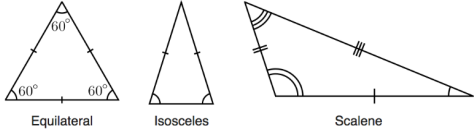


MATH "CHEAT SHEET" SSAT/ISEE

$x^2 \cdot x^3 = x^5$ $(x^2)^3 = x^6$ $\frac{x^5}{x^3} = x^2$ $x^{1/2} = \sqrt{x}$ $x^{-3} = \frac{1}{x^3}$	<u>% → Decimal → Fraction</u> 10% → 0.1 → $\frac{10}{100}$ 20% → 0.2 → $\frac{20}{100}$ 73% → 0.73 → $\frac{73}{100}$ 125% → 1.25 → $\frac{125}{100}$	<u>"Fence Posts"</u> Tickets #32 to #97 How many? $(97 - 32) + 1 = 66$ $f(x) = y$ $f(x) = 3x + 2$ $f(3) = 3(3) + 2 = 11$ $x = 3, y = 11$ (3,11)	<u>Geometry</u>  360° Area = πr^2 Circum. = $2\pi r = \pi d$  Volume = $\pi r^2 h$  360° Area = $l \times w$
Mean = $\frac{\text{Sum}}{\text{Number}}$ Rate = $\frac{\text{Distance}}{\text{Time}}$ $ 3 = 3$ $ -3 = 3$	<u>Fractions</u> $\frac{1}{2} + \frac{3}{2} = \frac{4}{2}$ $\frac{1}{2} - \frac{3}{2} = -\frac{2}{2}$ $\frac{1}{2} \cdot \frac{3}{2} = \frac{3}{4}$ $\frac{1}{2} \div \frac{3}{2} = \frac{1}{2} \cdot \frac{2}{3} = \frac{1}{3}$ ADD/ SUBTRACT MULTIPLY DIVIDE	$\sqrt{72} =$ $\sqrt{36 \cdot 2} =$ $6\sqrt{2}$ median: 1, 2, <u>3</u> , 4, 5 mode: 1, <u>2</u> , <u>2</u> , 3, 4 <u>Scientific Notation:</u> $3 \times 10^{-3} = 0.003$ $3 \times 10^3 = 3000$	<u>Firsts Lasts</u> $(a + b)(c + d)$ Outers Inners  180° Area = $\frac{1}{2} Bh$  45° 45° $x\sqrt{2}$ x x  l = w = h
		Polygon Interior Degrees: $(n - 2) \times 180$ n = number of sides	<u>Pythagorean Theorem:</u> $a^2 + b^2 = c^2$ <u>Slope = $\frac{\text{Rise}}{\text{Run}}$</u>  No slope + slope - slope Zero slope
Probability(P) = $\frac{\text{Favorable Outcomes}}{\text{Total Possible Outcomes}}$	<u>Difference of 2 Squares:</u> $x^2 - y^2 = (x + y)(x - y)$	Hundreds Tens Units (Ones) Tenths Hundredths Thousandths $\frac{2}{100} \cdot \frac{3}{10} = \frac{6}{1000}$	 120° 60° 60° 120° 120° 60° 60° 120° Straight line = 180° Alternate interior angles equal
 Equilateral Isosceles Scalene THREE TYPES OF TRIANGLES			$y = mx + b$ m = slope b = y-intercept Range = y-values Domain = x-values

