

	MONDAY - Jan 4	TUESDAY - Jan 5	WEDNESDAY - Jan 6	THURSDAY - Jan 7
UNIT 1		<p>How can these triangles be proven to be congruent?</p> <p>SAS cong. Th.</p>	<p>In the triangle shown, $\overline{AB} \parallel \overline{DE}$. What is the length of \overline{CD}?</p> <p>$\frac{x}{3} = \frac{5}{2}$ $\frac{2x}{2} = \frac{15}{2}$ $x = 7.5$</p>	<p>Justify the following:</p> <p>$\angle HJK \cong \angle IJK$ $\angle JIK \cong \angle JIH$ corresponding angles are congruent</p>
UNIT 2		<p>Given $\triangle HJ \sim \triangle KLM$ and $\sin(LJ) = \frac{2}{9}$, find $\sin(LM)$</p> <p>same position so same angle measure so same ratio. $\sin M = \frac{2}{9}$</p>	<p>Find the missing side:</p> <p>$\tan 44 = \frac{9}{x}$ $x = \frac{9}{\tan 44}$ $x = 9.320$</p>	<p>Find the value of θ.</p> <p>$\cos \theta = \frac{A}{H}$ $\cos \theta = \frac{20}{25}$ $\theta = \cos^{-1}(\frac{20}{25}) = 36.870^\circ$</p>
UNIT 3		<p>Find the value of x.</p> <p>opp. sides are supp $21x - 2 + 38x + 5 = 180$ $59x + 3 = 180$ $59x = 177$ $x = 3$</p>	<p>Find the area of the sector which has a 145° angle.</p> <p>$\frac{145}{360} \cdot \pi(12)^2$ $A = 58\pi \text{ yd}^2$ or 182.212 yd^2</p>	<p>Find the volume of the slanted cylinder:</p> <p>$V = Bh$ $V = \pi r^2 h$ $V = \pi(10)^2(12)$ $V = 300\pi \text{ m}^3$ $V = 942.478 \text{ m}^3$</p>
UNIT		<p>Find the difference:</p> <p>$(8x^2 - 7x + 8) - (3x^2 + 7x - 2)$ $8x^2 - 7x + 8$ $-3x^2 - 7x + 2$ $5x^2 - 14x + 10$</p>	<p>Find the Perimeter: Add all sides</p> <p>$18x + 6 \text{ units}$</p>	<p>Find the Area:</p> <p>$(x+4)(x^2+2x+3)$ $x^3 + 2x^2 + 3x$ $4x^2 + 8x + 12$ $x^3 + 6x^2 + 11x + 12 \text{ units}^2$</p>

