chapter 11 formulas (must be memorized)

rectangle $A = bh$

square $A = s^2$

parallelogram $A = bh$

triangle $A = \frac{1}{2}bh$

circle $C = 2\pi r$ or πd

$A = \pi r^2$

trapezoid $A = \frac{1}{2}h(b_1 + b_2)$

rhombus $A = \frac{d_1 \cdot d_2}{2}$

regular polygon $A = \frac{1}{2}pa$

arc length $= \frac{\text{central } \angle}{360^\circ} \cdot 2\pi r$

sector area $= \frac{\text{central } \angle}{360^\circ} \cdot \pi r^2$

If 2 similar figures have a scale factor of $a : b$,

then 1) ratio of corresponding dimensions or perimeters $= a : b$

2) ratio of areas $= a^2 : b^2$