Grade 7 Reference Sheet

Area:

circle: $A = \pi r^2$

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

Circumference:

circle: $C = 2\pi r$

Perimeter:

polygon: P = sum of lengths of all sides

Surface area:

cylinder: SA = sum of areas of bases and lateral surface area

prism: SA = sum of areas of all faces (bases included)

pyramid: SA = sum of areas of all faces (base included)

Volume:

cylinder: V = area of base $\times$ cylinder height

prism: V = area of base $\times$ prism height

pyramid: $V = \frac{1}{3} \times$ area of base $\times$ pyramid height

$\pi \approx 3.14$ or $\frac{22}{7}$

Note: Figures in this test are drawn as accurately as possible, except when it is specifically stated that the figure is not drawn to scale.