Name: _____   Date: _____

Section 3.1 Math Link

This worksheet will help you with the Math Link on page 98.

rectangular prism · circle · cube · square · cylinder
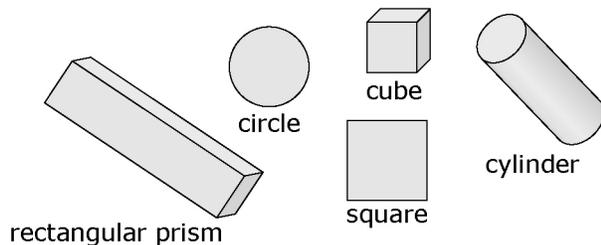
1. Fill in the blanks to rewrite each formula using repeated multiplication. Then, answer the questions.

a) *S.A.* = $6s^2$

   S.A. = _____ × _____ × _____

   What does *S.A.* stand for? _____

   What solid is this formula used for? _____

   Describe in words how you would use the formula *S.A.* = $6s^2$.

   _____

b) *V* = $\pi r^2 h$

   V = _____ × _____ × _____ × _____

   What does *V* stand for? _____

   What solid is this formula used for? _____

   Describe in words how you would use the formula *V* = $\pi r^2 h$.

   _____

2. Fill in the blanks to rewrite each formula using repeated multiplication. Then, answer the question.

a) s^2 = _____ × _____

   What shape or solid is this formula used for? _____

b) πr^2 = _____ × _____ × _____

   What shape or solid is this formula used for? _____

c) $2s^2 × h$ = _____ × _____ × _____ × _____

   What shape or solid is this formula used for? _____