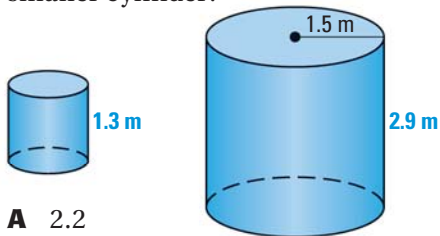


12 TAKS PRACTICE

PRACTICE FOR TAKS OBJECTIVE 8

- The edge length of a cube is 4 times the edge length of another cube. How many times greater is the surface area of the larger cube than the surface area of the smaller cube?
A 4
B 8
C 16
D 24
- The base area and height of a triangular prism are multiplied by a factor of 6. How many times greater is the surface area of the new prism than the surface area of the original prism?
F 6
G 30
H 216
J Not here
- The two cylinders shown below are similar. About how many times greater is the volume of the larger cylinder than the volume of the smaller cylinder?



- A** 2.2
B 5.0
C 6.5
D 11.0
- A crate has a surface area of 9 square meters. The dimensions of another crate are k times the dimensions of the first crate. If the second crate has a surface area of 10.89 square meters, what is k ?
F 0.83
G 1.07
H 1.10
J 1.21

- A pyramid has a volume of 125 cubic feet. The dimensions of a second pyramid are 80% of the corresponding dimensions of the first pyramid. What is the volume of the second pyramid?
A 51.2 ft^3
B 64 ft^3
C 80 ft^3
D 100 ft^3

MIXED TAKS PRACTICE

- A pool is a rectangular prism with a base of 90 square feet. If filled to the top, the pool can hold 495 cubic feet of water. However, the water level of the pool is currently x feet from the top. Which equation represents w , the number of cubic feet of water in the pool, as a function of x ? **TAKS Obj. 2**
F $w = 495 - 90x$
G $w = 495x - 90$
H $w = 495 + 90x$
J $w = 495(90 + x)$
- A specific shade of orange paint is made by mixing 5 parts yellow paint with 4 parts red paint. How much yellow paint is needed to make 12 ounces of the shade of orange paint? **TAKS Obj. 9**
A 5.33 oz
B 6.67 oz
C 9.6 oz
D 15 oz
- Max wants to write an expression that will always produce an even integer. Which of the following will always produce an even integer for any given integer, n ? **TAKS Obj. 2**
F $\frac{n}{2} + 2$
G $2n - 1$
H $n^2 - 1$
J Not here