

## MAT.08.CR.2.0000G.B.128 Claim 2

Sample Item ID:	MAT.08.CR.2.0000G.B.128
Grade:	08
Primary Claim:	<b>Claim 2: Problem Solving</b> Students can solve a range of complex well-posed problems in pure and applied mathematics, making productive use of knowledge and problem solving strategies.
Secondary Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.
Primary Content Domain:	Geometry
Secondary Content Domain(s):	
Assessment Target(s):	2 B: Select and use appropriate tools strategically.  1 I: Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
Standard(s):	8.G.9
Mathematical Practice(s):	1, 5, 6
DOK:	2
Item Type:	CR
Score Points:	1
Difficulty:	M
Key:	63
Stimulus/Source:	
Target-specific attributes (e.g., accessibility issues):	
Notes:	A maximum of 3 digits can be entered in the response box.

A cylindrical tank has a height of 10 feet and a radius of 4 feet. Jane fills the tank with water at a rate of 8 cubic feet per minute. At this rate, how many minutes will it take Jane to completely fill the tank without overflowing it?

Round your answer to the nearest **minute**.

minutes