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## Opgave 174

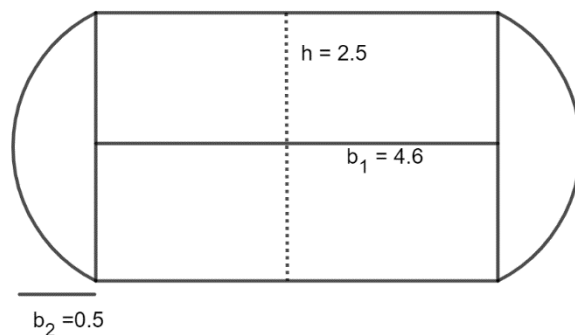
$$h = 2.5$$

$$b_1 = 4.6$$

$$b_2 = 0.5$$

Find cylinderens overflade areal

$$\begin{aligned}
 A_{cyl} &= 2 \cdot \pi \cdot \frac{h}{2} \cdot b_1 \\
 &= 2 \cdot \pi \cdot \frac{2.5}{2} \cdot 4.6 \quad | \text{Indsæt tal} \\
 &= 2 \cdot \pi \cdot 1.25 \cdot 4.6 \quad | \text{Divider} \\
 &= 36.13 \quad | \text{Gange sammen}
 \end{aligned}$$



Find endernes areal

$$\begin{aligned}
 A_{ende} &= \pi \cdot \left( b_2^2 + \left( \frac{h}{2} \right)^2 \right) \\
 &= \pi \cdot \left( 0.5^2 + \left( \frac{2.5}{2} \right)^2 \right) \quad | \text{Indsæt tal} \\
 &= \pi \cdot (0.5^2 + 1.25^2) \quad | \text{Udregn brøk} \\
 &= \pi \cdot (0.25 + 1.563) \quad | \text{Udregn potens} \\
 &= \pi \cdot 1.813 \quad | \text{Plus} \\
 &= 5.69 \quad | \text{Gange}
 \end{aligned}$$

$$\begin{aligned}
 A_{total} &= A_{cyl} + A_{ende} \cdot 2 \\
 &= 36.13 + 5.69 \cdot 2 \quad | \text{Indsæt tal} \\
 &= 36.13 + 11.38 \quad | \text{Gange} \\
 &= 47.51 \quad | \text{Plus}
 \end{aligned}$$

Hvor mange liter maling skal det bruges

$$\frac{47.51}{5} \approx 9,5$$