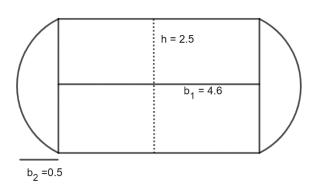
Navn:	Navn:		Skole:	
Klasse: 20		Dato: 17. april 2021	Fag: Matematik A	

## Opgave 174

$$h = 2.5$$
  
 $b_1 = 4.6$   
 $b_2 = 0.5$ 

Find cylinderens overflade areal

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



Find endernes areal

$$\begin{split} A_{ende} &= \pi \cdot \left(b_2^2 + \left(\frac{h}{2}\right)^2\right) \\ &= \pi \cdot \left(0.5^2 + \left(\frac{2.5}{2}\right)^2\right) & | \textit{Indsæt tal} \\ &= \pi \cdot (0.5^2 + 1.25^2) & | \textit{Udregn brøk} \\ &= \pi \cdot (0.25 + 1.563) & | \textit{Udregn potens} \\ &= \pi \cdot 1.813 & | \textit{Plus} \\ &= 5.69 & | \textit{Gange} \\ \\ A_{total} &= A_{cyl} + A_{ende} \cdot 2 \\ &= 36.13 + 5.69 \cdot 2 & | \textit{Indsæt tal} \\ &= 36.13 + 11.38 & | \textit{Gange} \\ &= 47.51 & | \textit{Plus} \end{split}$$

Hvor mange liter maling skal det bruges

$$\frac{47.51}{5} \approx 9.5$$