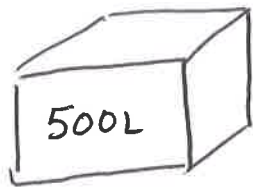


Water Tank

①



drains 175L / 5mins.

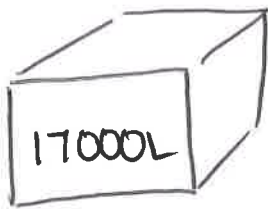
$$\text{unit rate} : \frac{175\text{L}}{5\text{mins}} \text{ (÷) } = 35\text{L/min}$$

Since the tank drains at a rate of 35L/min:

$$\frac{500\text{L}}{35\text{L}} \text{ (÷) } = 14.2857\dots\text{mins}$$

It would take ~14.2857 minutes to drain

②



1 truck = 3000L = \$58.

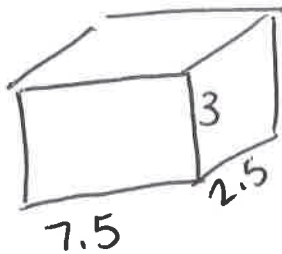
$$\frac{17000\text{L}}{3000\text{L}} = 5.\bar{6} \text{ trips.}$$

You cannot take a partial trip, ∴ 6 trips

$$6 \text{ trips} \otimes \$58 = \$348$$

You **CAN'T** afford to fill the tank.

③



$$2 (bh_1 + bh_2 + bh_3)$$

$$2 [(7.5 \cdot 2.5) + (2.5 \cdot 3) + (3 \cdot 7.5)]$$

$$2 (18.75 + 7.5 + 22.5)$$

$$2 (48.75)$$

$$97.5 \text{ m}^2$$

tip: make sure you use all combinations of the dimensions

* You could argue that the bottom does not need to be painted. The total area would be 78.75 m^2 .

④

$$\frac{97.5 \text{ m}^2}{15 \text{ m}^2} = 6.5 \text{ cans of paint.}$$

You must buy 7 cans of paint

↑
represents 1 can of paint

⑤ Answers will vary; however, you NEED to know how to use the formula.