Modeling with Geometric Figures: Question 2

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The total volume of rock is:

$$V = \frac{8ft^3}{1 \text{pound}} \tag{1}$$

$$V_{total} = 300 * 8 = 2400 ft^3 (2)$$

The maximum volume for each dump truck is :

$$V_{truck} = 9 * 12 * 8 = 864 ft^3 (3)$$

The number of trucks needed to deliver the rock in one trip is:

$$n_{trucks} = \frac{2400}{864} \approx 2.777778 \tag{4}$$

3 trucks are needed to deliver the rock is one trip.