

1. Convert $5000 \frac{\text{pounds}}{\text{ft}^3}$ into $\frac{\text{kg}}{\text{cm}^3}$
- $1000 \text{ g} = 1 \text{ kg}$
 $1 \text{ in}^3 = 16.39 \text{ cm}^3$
 $1 \text{ pound} = 454 \text{ grams}$
 $1 \text{ ft}^3 = 1728 \text{ in}^3$

$$5000 \frac{\text{pounds}}{\text{ft}^3}$$

2. Solve this proportion.

$$\frac{m + 5}{6} = \frac{m - 14}{10}$$

3. Andre can run 4 miles in 24.8 minutes. At the same rate how many miles can he run in an hour?

4. The east wing of the animal shelter houses cats and dogs. The ratio of cats to dogs in the east wing is 7:5. If there are 240 animals in the east wing find how many of those that are dogs.