



A crane operator unloaded the following cargo:  
 - 5 pallets of lumber. Each pallet weighed 7.3 tons.  
 - 9 pallets of concrete. Each pallet weighed 4.8 tons.

Concrete is heavier.

Which load of cargo was heavier, the lumber or the concrete? How many pounds heavier?

36.5 tons lumber  
 43.2 tons concrete  
 2000 lbs (1 ton)

Factor the expression.

$$-x + 6x^2 + 2x^3 - 3$$

$$\rightarrow (2x^3 + 6x^2 - x - 3)$$

$$2x^2(x+3) - 1(x+3)$$

$$(2x^2 - 1)(x + 3)$$

Solve the equation below for k.

$$AW = \left(\frac{4x - kx^2}{x^2}\right)A$$

$$AW = 4x - kx^2$$

$$-4x \quad -4x$$

$$\frac{+ky^2}{+x^2} = \frac{AW - 4x}{-x^2}$$

raining rate at interval is strictly



1 decagram = 10 grams  
 1,000 milligrams = 1 gram

A hospital stores one type of medicine in 2-decagram containers. Based on the information given in the box above, how many 1-milligram doses are there in one 2-decagram container?

- A. 0.002
- B. 200
- C. 2,000
- D. 20,000

D. 20,000

2 dec | 10 grams | 1000 mg  
 1 dec | 1 gram