

Zack drank 8 ounces of water per hour. What is that rate in gallons per day?



A



$1.5 \frac{\text{gallons}}{\text{day}}$

A UPS delivery box filled with playdough measures 8'' x 2'' x 10''. If one cubic inch is equal to 16.3871 cm^3 , how many cm^3 of playdough can there be in the box?

B

2621.94 cm^3

Bri is saving for a summer vacation. She has money that she received for her birthday and she also saves the same amount each month. The equation $y = 40x + 250$ models this situation.

What does the 40 represent?

C

The amount saved each month

Bri is saving for a summer vacation. She has money that she received for her birthday and she also saves the same amount each month. The equation $y = 40x + 250$ models this situation.

What does the 250 represent?

D

The amount of Birthday money

Given the polynomial below. What is the leading coefficient, the name by degree, and the name by terms?

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

E

Leading Coefficient: 2

Cubic

Binomial

Given the polynomial below. What is the leading coefficient, the name by degree, and the name by terms?

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

Leading Coefficient: -6

Quadratic

Trinomial



Simplify: $(9x^6 - 4x^5) + (10x^5 - 15x^4 + 14)$

G

$$9x^6 + 6x^5 - 15x^4 + 14$$

Simplify: $(-18x^2 + 4x - 16) - (15x^2 + 4x - 1)$



$$-33x^2 - 15$$

Simplify: $(4x + 5)^2$

I

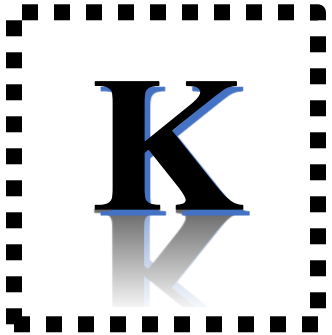
$$16x^2 + 40x + 25$$

Simplify: $(3x - 1)(x + 5)$

J

$$3x^2 + 14x - 5$$

Simplify: $(2x - 3)(4x^2 + 8x - 2)$



$$8x^3 + 4x^2 - 28x + 6$$

Simplify: $\sqrt{75x^5}$

L

$$5x^2\sqrt{3x}$$

A rectangle has a length that is 4 inches longer than its width. Which of the following represents the PERIMETER of the rectangle?

M

$$4x + 8$$

How many centimeters are in 5 kilometers?

N

500,000 cm

Convert 125 pounds into grams

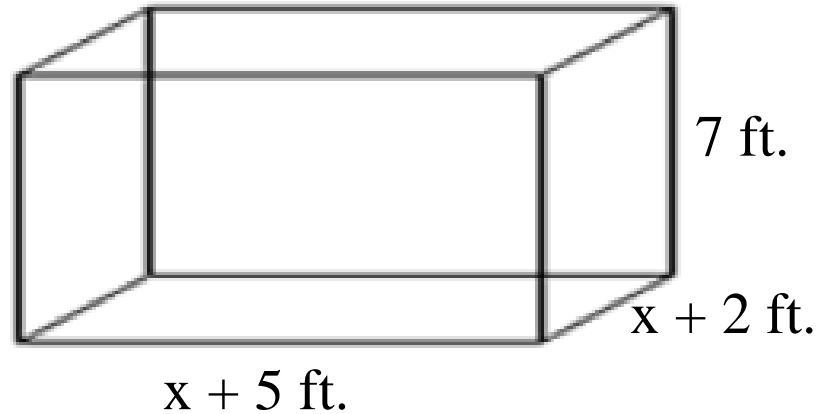
(1

kg = 2.2 pounds)

0

50,000 g

Below is a rectangular prism with given dimensions. Write a polynomial expression that represents the VOLUME of the prism.



P

$$7x^2 + 49x + 70 \text{ ft}^3$$

Simplify: $4\sqrt{20x^3} \cdot x\sqrt{24x}$



$$16x^3\sqrt{30}$$

**Convert 125 ft/sec into km/hour
(1 mile = 1.61 kM)**

R

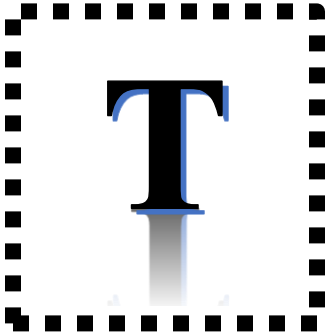
137.22 kM/hour

Simplify: $(\sqrt{3n^3})(-5\sqrt{3n})$



$$-15n^2$$

Simplify: $-3\sqrt{20} - 2\sqrt{54} + 3\sqrt{24}$



$$-6\sqrt{5}$$

Translate: Four times a number less than eight

U

$$8 - 4x$$

Translate: The quotient of a number cubed and twelve

x

$$\frac{x^3}{12}$$