

NAME :

Write equation and solve :

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1 Jill made 20 muffins. She put them into 3 boxes and has two muffins left. How many are in each box if they all contain the same amount of muffins?

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2 Kendra is buying bottled water for a class trip. She has 16 bottles left over from the last trip. She buys bottles by the case to get a good price. Each case holds 24 bottles. How many cases will she have to buy if she wants to have a total of 160 bottles of water?

Solve each equation. Show your work.

$$0 = 4 + \frac{n}{5}$$

$$2(n+5) = -2$$

$$-9x + 1 = -80$$

$$\frac{v+9}{3} = 8$$

7 Dr. Karev orders a 440 mg of Amoxicillin to be taken by a 64.2 lb. child every 8 hours. The medication label shows that 125-275 mg/kg per day is the appropriate dosage range. Is Dr. Karev's order within the desired range? (The conversion from kg to lbs. is 1kg/2.2lbs.)

a. What is the minimum dosage? \_\_\_\_\_

b. What is the maximum dosage? \_\_\_\_\_

c. How much Amoxicillin is the child taking each day? \_\_\_\_\_

d. Is Dr. Karev's order within the desired range? \_\_\_\_\_

8 Dr. Kepner orders a 760 mg of Amoxicillin to be taken by a 96.4 lb. child every 6 hours. The medication label shows that 25-140 mg/kg per day is the appropriate dosage range. Is Dr. Kepner's order within the desired range? (The conversion from kg to lbs. is 1kg/2.2lbs.)

a. What is the minimum dosage? \_\_\_\_\_

b. What is the maximum dosage? \_\_\_\_\_

c. How much Amoxicillin is the child taking each day? \_\_\_\_\_

d. Is Dr. Kepner's order within the desired range? \_\_\_\_\_

Convert the following quantities.

9. 565,900 seconds into days

10. 17 years into minutes



11. 165 pounds into kilograms

12. 100 yards into meters

13. 22,647 inches into miles

14. 2678 cm into feet

15. Convert 9 quarts to liters.

over →

USE PEMDAS TO SOLVE:

$$(6+7^2)+1$$

$$6-(8+3^3)-4$$

$$6 \times (2 \div 1) \div 1$$

$$(7+8-4^2) \times 2+1$$