

## MATH

1. Evaluate

$$ab^2 - ac \quad \text{if } a = 3, b = -4, \text{ and } c = -5$$

**ANS: 63**

2. Evaluate

$$3x^2 - 2x + 7 \quad \text{if } x = -3.$$

**ANS: 40**

3. Solve for x:

$$-7x + 9 = -47$$

**ANS: X=8**

4. Solve for t:

$$50 = -3t - 7$$

**ANS: t= -19**

5. A newborn weighs 8 pounds 5 ounces. There are 453.59 grams per pound. What is the infant's weight in grams?

A. 2268 grams

B. 3629 grams

**C. 3770 grams**

D. 3856 grams

6. What temperature in Fahrenheit is 50° Celsius? (Enter numeric value only. If rounding is necessary, round to the nearest whole number.) \_\_\_\_\_

**122° F**

7. A nurse works in a military hospital from 1300 to 2000. What time of day does this nurse work?

- A. Early morning to early afternoon
- B. Lunch time to midnight
- C. Early afternoon to bedtime
- D. Midnight to sunrise

8. A nurse is reviewing the daily intake and output (I&O) of a patient consuming a clear diet. The urinary drainage bag denotes a total of 1,000 mL for the past 24 hours. The total intake is:

2 8-oz cups of coffee

1 16-oz serving of clear soup

1 pint of water consumed throughout the day

How much is the deficit in milliliters? (Enter numeric value only. If rounding is necessary, round to the nearest whole number.)

440

9. A woman received a bottle of perfume as a present. The bottle contains  $\frac{1}{2}$  oz of perfume. How many milliliters is this? (Enter numeric value only. If rounding is necessary, round to the nearest whole number.)

15

10. The metric system of measurement was developed in France during Napoleon's reign. It is based on what multiplication factor?

- A. The length of Napoleon's forearm
- B. 2
- C. 10
- D. Atomic weight of helium

11. Round to the nearest whole number:  $4748 \div 12 =$

- A. 372
- B. 384
- C. 396
- D. 412

12. Report all decimal places:  $3.7 + 7.289 + 4 =$

A. 14.989

B. 5.226

C. 15.0

D. 15.07

13.  $4.934 + 7.1 + 9.08 =$

A. 21.114

B. 21.042

C. 20.214

D. 59.13

14.  $27 - 3.54 =$

A. 24.56

B. 23.46

C. 33.3

D. 24.54

15.  $28.19 - 9 =$

A. 28.1

B. 18.19

C. 27.29

D. 19.19

16. Karen goes to the grocery store with \$40. She buys a carton of milk for \$1.85, a loaf of bread for \$3.20, and a bunch of bananas for \$3.05. How much money does she have left?

A. \$30.95

B. \$31.90

C. \$32.10

D. \$34.95

17. Round your answer to the tenths place:  $0.088 \times 277.9 =$

A. 21.90

B. 2.5

C. 24.5

D. 24.46

18. Round your answer to the hundredths place:  $28 \div 0.6 =$

A. 46.67

B. 0.021

C. 17.50

D. 16.8

19. Roger's car gets an average of 25 miles per gallon. If his gas tank holds 16 gallons, about how far can he drive on a full tank?

a. 41 miles

b. 100 miles

c. 320 miles

d. 400 miles