

# QUESTIONS CH 12

## PHARMACY CALCULATIONS



### Learning Outcomes

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*After completing this chapter, you will be able to*

- Explain why it is important to follow a standardized approach when using math in pharmacy.
- Convert between fractions, decimals, and percentages.
- Convert between different systems of measurement.
- Perform and check key pharmacy calculations, including the calculations needed to interpret prescriptions and those involving patient-specific information.

## MULTIPLE CHOICE

- \_\_\_\_\_ 1. When adding fractions, the three steps in the correct order are:
- Reduce to the simplest fractions or mixed numbers, add numerators and denominators, and express answer as a fraction and simplify.
  - Convert to common denominators, add the numerators, and reduce to the simplest fractions or mixed numbers.
  - Convert to common numerators, add denominators, and reduce to the simplest fractions.
  - Add numerators and then add denominators, express answer as a fraction, and simplify.
- \_\_\_\_\_ 2. When multiplying fractions, the steps in the correct order are:
- Convert to common denominators, multiply the numerators, express answer as a fraction, and simplify.
  - Multiply the denominators, multiply the numerators, express answer as a fraction, and simplify.
  - Convert to common numerators, multiply the denominators, express answer as a fraction, and simplify.
  - Convert to common denominators, multiply numerators and denominators, express answer as a fraction, and simplify.
- \_\_\_\_\_ 3. When subtracting fractions, the steps in the correct order are:
- Reduce to the simplest fractions or mixed numbers, subtract numerators and denominators, express answer as a fraction, and simplify.
  - Convert to common numerators, subtract the denominators, and reduce to the simplest fractions.
  - Convert to common denominators, subtract the numerators, and reduce to the simplest fractions or mixed numbers.
  - Subtract the numerators, subtract the denominators, express answer as a fraction, and simplify.
- \_\_\_\_\_ 4. When dividing fractions, the steps in the correct order are:
- Convert to common denominators, divide the numerators, express answer as a fraction, and simplify.
  - Invert the divisor, divide the denominators, divide the numerators, express answer as a fraction, and simplify.
  - Invert the divisor, multiply the denominators, multiply the numerators, express answer as a fraction, and simplify.
  - Convert to common denominators, divide numerators and denominators, express answer as a fraction, and simplify.
- \_\_\_\_\_ 5. Percentage means per:
- Each
  - 10
  - 100
  - 1000
- \_\_\_\_\_ 6. To convert a percentage to a number, move the decimal point:
- One space to the left ( $5\% = 0.5$ )
  - Two spaces to the left ( $0.1\% = 0.001$ )
  - One space to the right ( $3\% = 30$ )
  - Two spaces to the right ( $1\% = 100$ )
- \_\_\_\_\_ 7. Which of the following is NOT TRUE regarding solving proportions?
- Two ratios with the same units can be combined to create a proportion,