## **Donursing Calculations 9th Edition Pickar Test Bank**

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## Chapter 2—Ratios, Percents, Simple Equations, and Ratio-Proportion

## PROBLEM

	Decimal	Fraction	Percent	Ratio
1.	0.05			
2.		$\frac{1}{8}$		
3.			45%	
4.				3:10

1. Complete row 1 in the table above.

PTS: 1 DIF: Application REF: Ratios and Percents

2. Complete row 2 in the table above.

ANS: 0.125, 12.5%, 1:8

PTS: 1 DIF: Application REF: Ratios and Percents

3. Complete row 3 in the table above.

ANS: 
$$0.45, \frac{9}{20}, 9:20$$

PTS: 1 DIF: Application REF: Ratios and Percents

4. Complete row 4 in the table above.

ANS: 
$$0.3, \frac{3}{10}, 30\%$$

PTS: 1 DIF: Application REF: Ratios and Percents

Solve for X. Round answers to two decimal places.

5.  $\frac{X}{5} = \frac{1}{8}$ 

ANS:  

$$\frac{X}{5} = \frac{1}{8}$$
 Change  $\frac{5}{8}$  to a decimal:  
 $8X = 5$   $0.625$   
 $\frac{8X}{8} = \frac{5}{8}$   $\frac{48}{20}$   
 $X = \frac{5}{8}$   $\frac{16}{40}$ 

Rounded to two decimal places, X = 0.63

REF: Solving Simple Equations for X PTS: 1 DIF: Application  $6. \quad \frac{\frac{1}{6}}{\frac{1}{4}} \times 10 = \mathbb{X}$ ANS:  $\frac{\frac{1}{6}}{\frac{1}{4}} \times 10 = \mathbb{X}$ Change  $6\frac{2}{3}$  to a decimal:  $6\frac{2}{3} = \frac{20}{3}$  $\left(\frac{1}{6} \div \frac{1}{4}\right) \times 10 = X$  $\left(\frac{1}{6} \times \frac{4}{1}\right) \times 10 = X$ 6.666 3) 20.000 <u>18</u> 20 18\_\_\_\_  $\frac{2}{3} \times \frac{10}{1} = X$ 20 18 20  $\frac{20}{3} = X$  $X = 6\frac{2}{3}$ 

Rounded to two decimal places, X = 6.67

PTS: 1 DIF: Application REF: Solving Simple Equations for X

Compute the answers for the following word problems.

7. A class of students consists of 9 men and 51 women. Write a proper fraction to represent the part of the total class that is women. Reduce the fraction. Change the fraction to a percent.

Reduced fraction: \_\_\_\_\_ Percent: \_\_\_\_\_

ANS:

There are 51 women in the class of 60 students.

 $\frac{51}{60} = \frac{17}{20}; \quad \frac{17}{20} = \frac{85}{100} = 85\%$ 

PTS: 1 DIF: Application REF: Ratios and Percents

8. A student received a score of 48 points on a test that was worth 60 points. Write a fraction to represent the portion of the test the student had answered correctly. Reduce the fraction. Change the fraction to a percent.

Reduced fraction: \_\_\_\_ Percent: \_\_\_\_ ANS:  $\frac{48}{60} = \frac{4}{5}; \quad \frac{4}{5} = \frac{80}{100} = 80\%$ PTS: 1 DIF: Application REF: Ratios and Percents

9. In order to pass a chapter test, a student must answer 80% or more of the questions correctly. If a chapter test has 25 questions, what is the smallest number of questions that the student must answer correctly in order to pass the test?

ANS: At least 80% of 25 questions must be answered correctly.

 $80\% \times 25 = 0.8 \times 25 = 20$ 

The student must answer at least 20 questions correctly.

PTS: 1 DIF: Application REF: Ratios and Percents

10. In order to pass a unit test, a student must answer 80% or more of the questions correctly. If a unit test has 75 questions, what is the largest number of questions that the student could answer incorrectly, but still pass the unit test?

ANS: At least 80% of 75 questions must be answered correctly.

 $80\% \text{ of } 75 = 0.8 \times 75 = 60$ 

At least 60 questions must be answered correctly.

75 - 60 = 15

The largest number of questions that the student could answer incorrectly, but still pass the test, is 15 questions.

PTS: 1 DIF: Application REF: Ratios and Percents

11. Change the following ratio to a fraction. Reduce to lowest terms.

ANS: 3:6 =  $\frac{3}{60} = \frac{1}{2}$ 

PTS: 1 DIF: Comprehension REF: Converting among Ratios, Percents, Fractions, and Decimals

12. Change the following ratio to a fraction. Reduce to the lowest term.

5:35

3:6

ANS: 5:35 =  $\frac{5}{35} = \frac{1}{7}$ 

PTS: 1 DIF: Comprehension REF: Converting among Ratios, Percents, Fractions, and Decimals

13. Change the following ratio to a decimal. Round to the hundredths place.

3:7

ANS:  
3:7 = 
$$\frac{3}{7}$$
 = 0.428 = 0.43

PTS: 1 DIF: Analysis REF: Converting among Ratios, Percents, Fractions, and Decimals

14. Change the following ratio to a decimal. Reduce to the hundredths place.

0.26 : 0.92 ANS: 0.26 : 0.92 =  $\frac{26}{92}$  = 0.282 = 0.28

PTS: 1 DIF: Application REF: Converting among Ratios, Percents, Fractions, and Decimals

15. Change the following ratio to a decimal. Round to the hundredths place.

1.4 : 2.8

ANS:

$$1.4: 2.8 = \frac{14}{28} = 0.5$$

PTS: 1 DIF: Application REF: Converting among Ratios, Percents, Fractions, and Decimals 16. Change the following ratio to a percent. Round to the hundredths place.

3:6 ANS: 3:6 =  $\frac{3}{6}$  = 0.5 = 0.50 = 50% PTS: 1 DIF: Application REF: Converting among Ratios, Percents, Fractions, and Decimals 17. Change the following ratio to a percent. Round to the hundredths place. 0.7 : 2.8 ANS: 0.7 : 2.8 =  $\frac{7}{28}$  = 0.25 = 25 %

PTS: 1 DIF: Application REF: Converting among Ratios, Percents, Fractions, and Decimals

18. Solve the following problem for X.

$$\frac{X}{6} = \frac{8}{0.4}$$
ANS:  

$$\frac{X}{6} = \frac{8}{0.4} = 48 = 0.4X = \frac{48}{0.4} = \frac{0.4X}{0.4} = 120$$

$$X = 120$$

PTS: 1 DIF: Application REF: Solving Simple Equations for X

19. Upon admission to the hospital, a child weighed 62 lb. One week later, upon discharge, the child weighed  $57\frac{1}{2}$  lb. How much weight did the child lose?

ANS: 62 - 57.5 = X

 $X = 4.5 \ lb$ 

PTS: 1 DIF: Application REF: Solving Simple Equations for X

20. A client is to receive 1,800 mL of fluid during a 24-hour period. The client is to receive  $\frac{3}{4}$  of the fluid between 7 AM and 10 PM. Calculate how many mL the client will drink during that time. ANS:  $1,800 \times \frac{3}{4} = \frac{5,400}{4} = 1,350 \text{mL}$ 

PTS: 1 DIF: Application REF: Solving Simple Equations for X

Determine what % one number is of another number.

21. 30 is what % of 100?

ANS: 
$$\frac{30}{100} = 0.3 = 30\%$$

PTS: 1 DIF: Comprehension REF: Finding the Percentage of a Quantity

22. 5 is what % of 1,500?

ANS: 
$$\frac{5}{1,500} = 0.00333 = 0.33\%$$

PTS: 1 DIF: Comprehension REF: Finding the Percentage of a Quantity

23. 1 is what % of 100?

ANS: 
$$\frac{1}{100} = 0.01 = 1\%$$

PTS: 1 DIF: Comprehension REF: Finding the Percentage of a Quantity

24. Convert as indicated.

$$\frac{3}{4}$$
 written as a ratio.ANS:  
3:4PTS: 1DIF: Comprehension25. Convert as indicated. $\frac{7}{8}$  written as a ratio.ANS:  
7:8PTS: 1DIF: ComprehensionREF: Ratios

26. Find the value of X in the following equation.

 $\frac{10}{500} = \frac{X}{75}$ ANS: 750 = 500X  $\frac{750}{500} = \frac{\$ \$ \$ \$ \$}{\$ \$ \$}$   $\frac{750}{500} = X$ 1.5 = X
PTS: 1 DIF: Application REF: Solving Simple Equations for X

27. Convert the following % to a decimal.

66%

ANS:  
$$66\% = \frac{66}{100} = 0.66$$

PTS: 1 DIF: Comprehension REF: Converting among Ratios, Percents, Fractions, and Decimals

28. Convert the following % to a decimal.

5.25%

ANS:  
$$5.25\% = \frac{525}{1,000} = 0.0525$$

PTS: 1 DIF: Comprehension REF: Converting among Ratios, Percents, Fractions, and Decimals

29. Convert the following decimal to a percent.

0.04

ANS: 0.04 × 100 = 4%

- PTS: 1 DIF: Comprehension REF: Converting among Ratios, Percents, Fractions, and Decimals
- 30. Convert the following decimal to a percent.

0.0016

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ANS:  $0.0016 \times 100 = 0.16\%$ PTS: 1 DIF: Comprehension REF: Converting among Ratios, Percents, Fractions, and Decimals 31. Convert the following decimal to a percent. 0.99 ANS:  $0.99 \times 100 = 99\%$ PTS: 1 DIF: Comprehension REF: Converting among Ratios, Percents, Fractions, and Decimals 32. Determine the percentage of a given number. 25% of 40 ANS:  $0.25 \times 40 = 10$ PTS: 1 DIF: Comprehension REF: Converting among Ratios, Percents, Fractions, and Decimals 33. Determine the percentage of a given number. 75% of 50 ANS:  $0.75 \times 50 = 37.5$ PTS: 1 DIF: Comprehension REF: Converting among Ratios, Percents, Fractions, and Decimals 34. Find the value of X in the following equation.  $\frac{X}{4} = \frac{3}{24}$ ANS:  $\frac{X}{4} = \frac{3}{24}$ 24X = 12X = -0.5 PTS: 1 DIF: Application REF: Solving Simple Equations for X