

Test Bank for Dosage Calculations 9th Edition by Pickar and Abernethy
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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. ANS:

$\frac{1}{20}$, 5%, 1:20

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,, $\frac{9}{20}$

PTS: 1 DIF: Application REF: Ratios and Percents

4. Complete row 4 in the table

above. ANS:

0.3,, $\frac{3}{10}$

PTS: 1

DIF: Application REF: Ratios and Percents

Solve for X. Round answers to two decimal places.

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

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.

3 : 6

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

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:

$$62 - 57.5 = X$$

$$X = 4.5 \text{ lb}$$

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 : 4

PTS: 1 DIF: Comprehension REF: Ratios

25. Convert as indicated.

$\frac{7}{8}$ written as a ratio.

ANS:

7 : 8

PTS: 1 DIF: Comprehension REF: Ratios

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

$$\frac{10}{500} = \frac{X}{75}$$

ANS:

$$750 = 500X$$

$$\frac{750}{500} = \frac{500X}{500}$$

$$\frac{750}{500} = X$$

$$1.5 = X$$

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:

$$0.04 \times 100 = 4\%$$

PTS: 1

DIF: Comprehension

REF: Converting among Ratios, Percents, Fractions, and Decimals

30. Convert the following decimal to a

percent. 0.0016

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:

$$\frac{X}{4} = \frac{3}{24}$$

$$24X = 12$$

$$X = -0.5$$

PTS: 1

DIF: Application REF: Solving Simple Equations for X