Introduction to Pharmacology 12th Edition Asperheim Test Bank

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Asperheim: Introduction to Pharmacology, 12th Edition

Chapter 1: Basic Math Review

Test Bank

MULTIPLE CHOICE

- 1. Subtracting 0.025 from 0.10 results in a difference of:
 - a. .0125
 - b. 1.25
 - c. 0.125
 - d. 0.075

ANS: D

	Feedback
Α	This is an addition of the numbers with the decimal points not aligned.
B	This is an addition of the numbers with the decimal points not aligned.
С	This is a sum of the numbers.
D	Aligning the decimal points and subtracting results in a difference of 0.075.

DIF: Cognitive Level: Apply

REF: Page 8

2. A temperature of 104° F converts to a Celsius temperature of:

- a. 40° C
- b. 75.6° C
- c. 129.6° C
- d. 72° C

ANS: A

	Feedback			
Α	104 - 32 = 72			
	$72 \ \Box \ 5 = 360$			
	360/9 = 40			
B	This answer (75.6° C) is the result of adding 32 to the Fahrenheit temperature			
	instead of subtracting it.			
С	This answer (129.6° C) is the result of multiplying by $9/5$ instead of $5/9$.			
D	This answer (72° C) is the result of subtracting 32 from the Fahrenheit			
	temperature without multiplying by the fraction 5/9.			

DIF: Cognitive Level: Apply

REF: Page 13

- 3. What is the lowest common denominator among the fractions 1/3, 1/2, and 1/4?
 - a. 12
 - b. 6
 - c. 5
 - d. 24

ANS: A

	Feedback
Α	The smallest number that is divisible by all three denominators $(3, 2, 4)$ is 12.
B	Four does not divide evenly into 6.
С	None of the denominators divide evenly into 5.
D	Although all of the denominators divide evenly into 24, it is not the smallest
	common denominator.

DIF: Cognitive Level: Remember REF: Page 4

- 4. Dividing 0.75 by 0.25 results in a quotient of:
 - a. 30
 - b. 3.00
 - c. 0.1875
 - d. 0.50

ANS: B

	Feedback				
Α	This answer is the result of dividing 0.75 by 0.025.				
B	After moving the decimal places over two positions in the divisor and the				
	dividend, then proceeding with division, the result is the whole number 3.				
С	This is the product of the two numbers, not the quotient.				
D	This is the result of subtracting 0.25 from 0.75.				

DIF: Cognitive Level: Apply REF: Page 9

- 5. One centimeter is equal to how many millimeters?
 - a. 100 mm
 - b. 1000 mm
 - c. 1/10 mm
 - d. 10 mm

ANS: D

Feedback

Α	1 cm = 10 mm, not 100 mm.
B	1 cm = 10 mm, not 1000 mm.
С	1 cm = 10 mm, not 1/10 mm.
D	1 cm = 10 mm.

DIF:	Cognitive Level: Remember	REF:	Page 13
•			

- 6. Eighteen is 30% of:
 - a. 540
 - b. 60
 - c. 0.06
 - d. 54

ANS: B

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Α	This answer (540) is the result of multiplying 18 by 30. (This is not the correct
	way to determine percentage.)
B	18 = 30% x
	18 = 0.30x
	18/0.30 = x
	18/0.30 = 60
С	This answer (0.06) is the result of dividing 0.018 by 0.30. (This eliminates the
	step of moving the decimal to the right to create a divisor that is a whole
	number.)
D	This answer (54) is the result of multiplying 18 by 3 instead of dividing by 0.30.

DIF: Cognitive Level: Apply REF: Page 11

- 7. The ratio 3:100 would properly be expressed in fraction form as:
 - a. 0.003
 - b. 3/100
 - c. 100/3
 - d. 33 1/3%

ANS: B

	Feedback			
Α	This is decimal form and not expressed as a fraction.			
B	Ratio indicates division, and the fraction 3/100 also represents the same			
	operation of three parts of 100.			
C	This fraction represents $100 \square 3$.			
D	This is percentage form and not a fraction.			

- 8. Three teaspoons equal how many milliliters?
 - a. 30 mL
 - b. 45 mL
 - c. 100 mL
 - d. 15 mL

ANS: D

	Feedback
Α	30 mL = 6 teaspoons.
B	45 mL = 9 teaspoons.
С	100 mL = 20 teaspoons.
D	1 teaspoon = 5 mL; 3 teaspoons = 15 mL.

DIF: Cognitive Level: Remember REF: Page 14

- 9. In the proportion 2.5 : x :: 500 : 600, the unknown is:
 - a. 120,000
 - b. -40
 - c. 3
 - d. 2.08

ANS: C

	Feedback				
Α	This answer (120,000) is the result of multiplying the two terms on the right				
	(500, 600) and dividing by the numeric term on the left (2.5).				
B	This answer (-40) is the result of subtracting the two terms on the right (500,				
	600) and dividing by the numeric term on the left (2.5).				
С	This answer (3) is the result of multiplying the means and the extremes and then				
	dividing to find the unknown.				
D	This answer (2.08) is the result of multiplying an extreme (2.5) by a mean (500)				
	and dividing by the other extreme (600).				

DIF: Cognitive Level: Remember REF: Page 12

- 10. Expressed in Roman numerals, the number 2009 is:
 - a. IIIV
 - b. MMIIII
 - c. MMIX
 - d. IVMM

ANS: C

	Feedback			
Α	This Roman numeral is not consistent with the syntax for the numbering system.			
B	This Roman numeral is not consistent with the syntax for the numbering system.			
С	The symbols for 1000 (M) are added, making 2000, and the number for 1 (I) is			
	subtracted from the number for 10 (X), giving 9.			
D	This Roman numeral is not consistent with the syntax for the numbering system.			

DIF: Cognitive Level: Apply REF: Page 1 and 2

PROBLEM

1. Convert 1/500 to a decimal.

ANS: 0.002 1 □ 500 = 0.002

DIF: Cognitive Level: Apply REF: Page 10

2. Convert 0.375 to a fraction.

ANS: 3/8 0.375 = 375/1000; reduced by dividing both numbers by 125 = 3/8

DIF: Cognitive Level: Apply REF: Page 10

3. Convert the following: $293^{\circ} F = x^{\circ} C$.

ANS: 145° C (5/9) (293 – 32) = 145 DIF: Cognitive Level: Apply REF: Page 13

4. Solve for x in the following proportion: 1/4 : 6 :: 3 : x.

ANS: 72 $6 \Box 3 = 1/4x; 18 = 1/4x; (1/4)(18) = 72$ DIF: Cognitive Level: Apply REF: Page 12

5. Change $4 \frac{3}{4}$ to an improper fraction.

	ANS: 19/4 (4 = 1	6/4) + 3/4 = 19/4		
	DIF:	Cognitive Level: Apply	REF:	Page 3
6.	Solve	for x in the following equivalent fract	tion: 10	0/x = 50/25
	ANS: $x = 50$ 100 \square	25 = 2500; 50 \Box <i>x</i> = 50 <i>x</i> ; 2500/50 =	50	
	DIF:	Cognitive Level: Apply	REF:	Page 4
7.	Solve	for x in the following proportion: 0.2	5 : 10 ::	<i>x</i> : 1
	ANS: 0.025 10 <i>x</i> =	(1 \Box 0.25); <i>x</i> = 0.25/10 = 0.025		
	DIF:	Cognitive Level: Apply	REF:	Page 12
8.	What	is 1/4% of 20?		
	ANS: 0.05 1/4%	$= 0.0025; 0.0025 \square 20 = 0.05$		
	DIF:	Cognitive Level: Apply	REF:	Page 10 and 11
9.	Conve	ert the following units: $143 \text{ lb} = x \text{ kg}$		
	ANS: 65 kg 1 kg =	= 2.2 lb; 143/2.2 = 65		
	DIF:	Cognitive Level: Apply	REF:	Page 14
10.	Conve	ert 16/100 to a decimal.		
	ANS: 0.16 16 🗆	100 = 0.16		
	DIF:	Cognitive Level: Apply	REF:	Page 10
11.	Write	CXLVII as an Arabic numeral.		

ANS: 147 C = 100, X = 10, L = 50, V = 5, I = 1 100 + (50 - 10) + (5 + 2)DIF: Cognitive Level: Apply REF: Page 1 and 2 12. Solve for x in the following proportion: 1/5:1::20:xANS: 100 $1/5x = 20 \Box 1; x = 5 \Box 20$ DIF: Cognitive Level: Apply REF: Page 12 13. Solve for x in the following equivalent fraction: x/16 = 6/32ANS: x = 316 \square 6 = 96; 32 \square x = 32x (Dividing both sides by 32 yields x = 3.) DIF: Cognitive Level: Apply REF: Page 4 14. Convert the following units: 1 tablespoon = x mLANS: 15 mL 1 teaspoon = 5 mL; 1 tablespoon = 3 teaspoons $3 \Box 5 = 15$ DIF: Cognitive Level: Apply REF: Page 14 15. Convert the following: $38^{\circ} C = x^{\circ} F$ ANS: 100.4° F $(9 \times 38 + 160)/5 = 100.4$ DIF: Cognitive Level: Apply REF: Page 13 16. Write MDCCLXXVI as an Arabic numeral. ANS: 1776 M = 1000, D = 500, C = 100, L = 50, X = 10, V = 5, I = 11000 + (1000 - 300) + (50 + 20) + (5 + 1)DIF: Cognitive Level: Apply REF: Page 1

17. Find the lowest common denominator: 1/3, 5/4, 3/5

ANS: LCD = 60 $3 \Box 4 = 12$; $12 \Box 5 = 60$ (Sixty is the smallest number divisible by all three denominators.) DIF: Cognitive Level: Apply REF: Page 4 18. Convert 1/8 to a decimal. ANS: 0.125 $1 \square 8 = 0.125$ DIF: Cognitive Level: Apply REF: Page 10 19. Three is what percent of 5? ANS: 60% 3 is 3/5 of 5; 3 divided by 5 = 0.60 or 60%DIF: Cognitive Level: Apply REF: Page 11 20. Solve for x in the following proportion: 9:6::x:30ANS: 45 $6x = 9 \Box 30; 6x = 270; 270 \Box 6 = 45$ DIF: Cognitive Level: Apply REF: Page 12 21. Solve for *x* in the following equivalent fraction: 3/6 = x/12ANS: x = 6 $3 \square 12 = 36$; $6 \square x = 6x$ (Dividing both sides of 36 = 6x by 6 yields 6 = x.) DIF: Cognitive Level: Apply REF: Page 4 22. Write 1888 as a Roman numeral. ANS: **MDCCCLXXXVIII** M = 1000, D = 500, C = 100, L = 50, X = 10 DIF: Cognitive Level: Apply REF: Page 1 and 2

23. Change 15 3/8 to an improper fraction.

	ANS: 123/8 (15 =	120/8) + 3/8		
	DIF:	Cognitive Level: Apply	REF:	Page 3
24.	Conve	ert the following: $68^{\circ} F = x^{\circ} C$		
	ANS: 20° C (5/9) (68 - 32) = 20		
	DIF:	Cognitive Level: Apply	REF:	Page 13
25.	Find the lowest common denominator: $1/8$, $1/4$, $1/32$ ANS: LCD = 32 $8 \Box 4 = 32$ (Thirty-two is the smallest number divisible by all three denominators.)			
	DIF:	Cognitive Level: Apply	REF:	Page 4
26.	Convert the following units: $30 \text{ mL} = x \text{ fl oz}$			
	ANS: 1 fl oz 1 fl oz	z = 30 mL		
	DIF:	Cognitive Level: Apply	REF:	Page 14
27.	What	percent of 25 is 5?		
	ANS: 20% 5 is 1/	5 of 25; 1 divided by 5 = 0.20 or 20%		
	DIF:	Cognitive Level: Apply	REF:	Page 11
28.	Convert 6.25 to a fraction.			
	ANS: $25/4 \text{ or } 6 1/4$ 0.25 is the same as $25/100$; dividing the numerator and denominator by $25 = 1/4$			
	DIF:	Cognitive Level: Apply	REF:	Page 10

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29. Solve for x in the following proportion: 5:25::x:100

ANS: 20 $25x = 5 \square 100; x = 500/25$

DIF: Cognitive Level: Apply REF: Page 12