Dosage Calculations (Canadian) 5th edition Pickar Test Bank

SKU: 9780176912260-TEST-BANK

Name:_____ Class:_____ Date:_____

Chapter 1 - Fractions and Decimals

1. Which fraction has the highest value?
   a. 5/2 b. 5/3
   c. 5/9 d. 5/7

ANSWER: a

2. Which fraction has the lowest value?
   a. 8/11 b. 9/5
   c. 2/9 d. 2/7

ANSWER: c

3. The sodium content of a patient's breakfast is as follows: 250 mL 2% milk = 0.12 grams; 2 slices of whole wheat toast = 0.155 grams per slice; margarine = 0.07 grams; and 200 mL apple juice = 0.15 grams. How many grams of sodium did the patient consume?
   a. 1.28 grams b. 0.65 grams
   c. 495 grams d. 0.495 grams

ANSWER: b

4. Rounding the answer off to two decimal places (hundredths), what is the product of 1.82 × 0.04?
   a. 0.73 b. 0.073
   c. 0.07 d. 0.7

ANSWER: c

5. Rounding the answer off to two decimal places (hundredths), what is the solution to 1.125 ÷ 0.75?
   a. 1.5 b. 15
   c. 1.61 d. 0.84

ANSWER: a

6. Which of the following is an improper fraction?
   a. 1/4 b. 6/5
   c. 1 2/3 d. 3458

ANSWER: b

7. Arrange the following decimals from *largest* to *smallest*: 1.5, 0.25, 1.025
ANSWER: 1.5, 1.025, 0.25

8. Arrange the following decimals from *largest* to *smallest*: 0.33, 0.045, 0.7
ANSWER: 0.7, 0.33, 0.045

9. Arrange the following fractions from *smallest* to *largest*: $\frac{3}{16}, \frac{3}{20}, \frac{3}{4}$

ANSWER: $\frac{3}{20}, \frac{3}{16}, \frac{3}{4}$

10. Arrange the following fractions from *smallest* to *largest*: $\frac{7}{16}, \frac{3}{16}, \frac{5}{16}$

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Chapter 1 - Fractions and Decimals

ANSWER: $\frac{3}{16}, \frac{5}{16}, \frac{7}{16}$

11. $5\frac{5}{6} + 7\frac{1}{3}$

ANSWER: $5\frac{5}{6} + 7\frac{1}{3} = 5\frac{5}{6} + 7\frac{2}{6} = 12\frac{7}{6} = 13\frac{1}{6}$

12. $2\frac{1}{2} \div \frac{3}{4}$

ANSWER: $2\frac{1}{2} \div \frac{3}{4} = \frac{5}{2} \div \frac{3}{4} = \frac{5}{\cancel{2}_{1}} \times \frac{\overset{2}{\cancel{4}}}{3} = \frac{10}{3} = 3\frac{1}{3}$

13. $8\frac{5}{12} - 3\frac{3}{4}$

ANSWER: $8\frac{5}{12} - 3\frac{3}{4} = 8\frac{5}{12} - 3\frac{9}{12} = 7\frac{17}{12} - 3\frac{9}{12} = 4\frac{8}{12} = 4\frac{2}{3}$

14. $\frac{\frac{3}{4}}{\frac{5}{8}}$

ANSWER: $\frac{\frac{3}{4}}{\frac{5}{8}} = \frac{3}{4} \div \frac{5}{8} = \frac{3}{\cancel{4}_{1}} \times \frac{\overset{2}{\cancel{8}}}{5} = \frac{6}{5} = 1\frac{1}{5}$

Perform the following calculations. Round answers to the second decimal place (hundredths) when required.

15. 2.7×0.02

ANSWER: 0.05

$$\begin{array}{r} 2.7 \\ \times 0.02 \\ \hline 0.054 \end{array}$$

16. $16.7 + 53 + 5.85 + 0.028$

ANSWER: 75.58

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$$\begin{array}{r} 16.7 \\ +53 \\ +\ 5.85 \\ +\ 0.028 \\ \hline 75.578 \end{array}$$

17. $\$91 - \$5.83$

ANSWER: *$85.17*

$$\begin{array}{r} \$91.00 \\ -5.83 \\ \hline \$85.17 \end{array}$$

18. $735 \div 1.05$

ANSWER: 700

$$\begin{array}{r} 700. \\ 1.05\overline{)735.00} \\ \underline{735} \\ 000 \end{array}$$

	Decimal	Fraction
1.	0.05	
2.		$\frac{1}{8}$

19.

Complete row 1 in the table above.

ANSWER: $\frac{1}{20}$

$$0.05 = \frac{5}{100} = \frac{1}{20}$$

	Decimal	Fraction
1.	0.05	
2.		$\frac{1}{8}$

20.

Complete row 2 in the table above. Round this answer to 3 decimal places (thousandths).

ANSWER: 0.125

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$$\frac{1}{8} = \frac{125}{1000} = 0.125$$

21. $3\frac{1}{3} \times 4\frac{1}{8}$

ANSWER:

$$\frac{\overset{5}{\cancel{10}}}{\cancel{3}} \times \frac{\cancel{33}}{\cancel{8}} = \frac{55}{4} = 13\,{}^{3}\!/_{4}$$

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