

***Dosage Calculations (Canadian) 5th edition Pickar
Test Bank***

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Chapter 1 - Fractions and Decimals

1. Which fraction has the highest value?

- a. $\frac{5}{2}$ b. $\frac{5}{3}$
c. $\frac{5}{9}$ d. $\frac{5}{7}$

ANSWER: a

2. Which fraction has the lowest value?

- a. $\frac{8}{11}$ b. $\frac{9}{5}$
c. $\frac{2}{9}$ d. $\frac{2}{7}$

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 $1.125 \div 0.75$?

- a. 1.5 b. 15
c. 1.61 d. 0.84

ANSWER: a

6. Which of the following is an improper fraction?

- a. $\frac{1}{4}$ b. $\frac{6}{5}$
c. $1\frac{2}{3}$ 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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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: $2\frac{1}{2} \div \frac{3}{4} = \frac{5}{2} \div \frac{3}{4} = \frac{5}{2} \times \frac{4}{3} = \frac{10}{3} = 3\frac{1}{3}$

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

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

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 ÷ 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:

$$\frac{10}{3} \times \frac{33}{8} = \frac{55}{4} = 13\frac{3}{4}$$