

Chapter 1—Fractions and Decimals

MULTIPLE CHOICE

1. Which fraction has the highest value?

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

ANS: A

PTS: 1

REF: Pages 10-11 BLM: Remember

2. Which fraction has the lowest value?

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

ANS: C

PTS: 1

REF: Pages 10-11 BLM: Higher Order

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

a. 1.28 grams
b. 0.65 gram
c. 495 grams
d. 0.495 gram

ANS: B

PTS: 1

REF: Pages 28-29 BLM: Higher Order

Round off your answers of the following problems to two decimal places (hundredths).

4. What is the product of 1.82×0.04 ?

a. 0.73
b. 0.073
c. 0.07
d. 0.7

ANS: C

PTS: 1

REF: Pages 30-32 BLM: Higher Order

5. What is the answer to $1.125 \oplus 0.75$?

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

ANS: A

PTS: 1

REF: Pages 32-34 BLM: Higher Order

6. Which of the following is an improper fraction?

- a. $\frac{1}{4}$
- b. 65
- c. $1\frac{2}{3}$
- d. 3458

ANS: B

PTS: 1

REF: Pages 6-7

BLM: Remember

SHORT ANSWER

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

ANS:

1.5, 1.025, 0.25

PTS: 1

REF: Pages 24-25

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

ANS:

0.7, 0.33, 0.045

PTS: 1

REF: Pages 24-25

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

ANS:

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

PTS: 1

REF: Pages 10-11

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

ANS:

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

PTS: 1

REF: Pages 10-11

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

ANS:

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

PTS: 1

REF: Pages 13-14

6. $2\frac{1}{2} \div \frac{3}{4}$

ANS:

$$2\frac{1}{2} \div \frac{3}{4} = \frac{5}{2} \div \frac{3}{4} = \frac{5}{2} \times \frac{4}{3} = \frac{10}{3} = 3\frac{1}{3}$$

PTS: 1

REF: Pages 18-20

7. $8\frac{5}{12} - 3\frac{3}{4}$

ANS:

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

PTS: 1

REF: Page 14

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

ANS:

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

PTS: 1

REF: Pages 18-20

Calculation

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

9. 2.7×0.02

ANS:

0.05

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

PTS: 1

REF: Pages 30-32

10. $16.7 + 53 + 5.85 + 0.028$

ANS:

16.7

PTS: 1

REF: Pages 28-29

11. $\$91 - \5.83

ANS:

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

PTS: 1

REF: Pages 28-29

12. $735 \div 1.05$

ANS:

700

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

PTS: 1

REF: Pages 32-34

13.

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

Complete row 1 in the table above.

ANS:

$$\frac{1}{20}$$

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

PTS: 1

REF: Pages 25-26

14.

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

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

ANS:

0.125

PTS: 1

REF: Page 25-26

15. 313×418

ANS:

10 5/12

$$313 \times 418 = 103 \times 258 = 25024 = 101024 = 10512$$

PTS: 1

REF: Pages 16-18