

15. Solve $-9 + n = 15$.
- A -24 C 6
B 24 D -6
16. Which decimal is equivalent to $\frac{3}{10}$?
- A 3.333 C 0.6
B 0.7 D 0.3
17. Beth bought 25 trading cards of which 19 were sports cards. Which decimal shows what portion of the cards were sports cards?
- A 0.76 B 1.316
18. Which decimal is equivalent to $\frac{7}{8}$.
- A 0.625 C 0.87
B 0.875 D 0.78
19. Which group of decimals is in order from greatest to least?
- A 0.37, 0.037, 0.073, 0.307
B 0.037, 0.073, 0.307, 0.37
C 0.073, 0.307, 0.37, 0.037
D 0.37, 0.307, 0.073, 0.037
20. Which number is the least?
- A 0.4 C $\frac{3}{8}$
B 0.35 D $\frac{3}{5}$
21. Which number is greatest?
- A $\frac{1}{4}$ C 0.26
B $\frac{2}{5}$ D 0.44
22. Which set of fractions is in order from least to greatest?
- A $\frac{1}{3}, \frac{2}{4}, \frac{3}{5}$ B $\frac{3}{5}, \frac{2}{4}, \frac{1}{3}$

CHAPTER

Integers and Rational Numbers

2

Multiple Choice Test B, continued

16. Which decimal is equivalent to $\frac{7}{8}$?

F 0.625 H 0.78

G 0.7 J 0.875

17. Richard bought 48 trading cards, of which 21 were sports cards. Which decimal shows what portion of the cards were sports cards?

A 0.21 C 0.4375

B 0.41 D 2.29

18. Which decimal is equivalent to $\frac{3}{8}$?

F 0.83 H 0.38

G 0.375 J 0.625

19. Which group of decimals is in order from greatest to least?

A 0.054, 0.405, 0.45, 0.504

B 0.504, 0.054, 0.45, 0.405

C 0.405, 0.045, 0.054, 0.504

D 0.504, 0.45, 0.405, 0.054

20. Which number is the least?

F 0.41 H $\frac{1}{8}$

G 0.124 J $\frac{2}{5}$

21. Which number is greatest?

A $\frac{3}{4}$ C 0.68

B $\frac{7}{10}$ D 0.77

22. Which set of fractions is in order from least to greatest?

F $\frac{2}{3}, \frac{5}{6}, \frac{3}{4}$ H $\frac{2}{3}, \frac{3}{4}, \frac{5}{6}$

G $\frac{5}{6}, \frac{3}{4}, \frac{2}{3}$ J $\frac{3}{4}, \frac{2}{3}, \frac{5}{6}$

CHAPTER

2

Integers and Rational Numbers

Multiple Choice Test C

Choose the best answer.

1. Which replacement for x makes this a true statement?

$x < -31$

- A -42 C 5
 B -12 D 45

2. Order the integers from least to greatest: -84, 22, 0, -9, 5.

- F 22, 5, 0, -9, -84
 G 0, 5, -9, 22, -84
 H -84, -9, 0, 5, 22
 J -9, -84, 0, 5, 22

3. Find the absolute value $|-47|$.

- A -47 C 1
 B 0 D 47

4. At 6 A.M. the temperature was -17°C . In the afternoon, the temperature was 13°C . What was the change of temperature during the day?

- F -30°C H 15°C
 G -4°C J 30°C

5. Evaluate $a + b$ for $a = -62$ and $b = 33$.

- A -95 C -29
 B -39 D 29

6. Add $23 + (-19)$.

- F -4 H 14
 G 4 J 42

7. Find the difference $-55 - 67$.

- A -122 C -2
 B -12 D 12

8. Find the difference $28 - (-37)$.

- F -9 H 55
 G 9 J 65

9. Find the product $13 \cdot (-9)$.

- A 117 C -1.444
 B 4 D -117

10. Find the quotient $-168 \div (-14)$.

- F 12 H -12
 G 0.083 J -182

11. Find the product $(-16) \cdot (-25)$.

- A -400 C 0.615
 B -41 D 400

12. Solve $n - 12 = -29$.

- F $n = -46$ H $n = 17$
 G $n = -17$ J $n = 46$

13. Solve $\frac{g}{8} = -11$.

- A $g = -88$ C $g = -1\frac{3}{8}$
 B $g = -3$ D $g = 19$

14. Josephine withdrew \$281 from her savings account. The current balance is \$567. How much was the balance before her withdrawal?

- F $-\$286$ H $\$848$
 G $\$286$ J $\$159,327$

15. Solve $-6 + g = 17$.

- A -23 C 23
 B 11 D -11

CHAPTER

Integers and Rational Numbers

2

Multiple Choice Test C, continued

16. Which decimal is equivalent to $\frac{8}{15}$?

F 1.875 H $0.\overline{53}$

G 0.815 J 0.5

17. Beth bought 22 trading cards, of which 20 were sports cards. Which decimal shows what portion of the cards were sports cards?

A 2.833 C 0.647

B $0.\overline{90}$ D 0.2833

18. Which decimal is equivalent to $\frac{5}{8}$?

F 0.58 H 0.625

G 0.85 J 0.375

19. Which group of decimals is in order from greatest to least?

A 0.702, 0.72, 0.207, 0.27

B 0.207, 0.27, 0.702, 0.72

C 0.702, 0.207, 0.72, 0.27

D 0.72, 0.702, 0.27, 0.207

20. Which number is the least?

F 0.39 H $\frac{1}{5}$

G 0.203 J $\frac{3}{8}$

21. Which number is greatest?

A $\frac{12}{25}$ C $\frac{45}{90}$

B 0.49 D 0.495

22. Which set of fractions is in order from least to greatest?

F $\frac{7}{8}, \frac{5}{9}, \frac{11}{13}$ H $\frac{5}{9}, \frac{7}{8}, \frac{11}{13}$

G $\frac{5}{9}, \frac{11}{13}, \frac{7}{8}$ J $\frac{7}{8}, \frac{11}{13}, \frac{5}{9}$

CHAPTER

Integers and Rational Numbers

2

Free Response Test A

1. Which symbol, $<$, $>$, or $=$, makes the statement true?

$-8 \square 7$

2. Order the integers from least to greatest: 0, -14 , 10.

3. Find the absolute value $|-6|$.

4. At 6 A.M. the temperature was -3°C . In the afternoon, the temperature was 7°C . What was the change of temperature during the day?

5. Evaluate $a + b$ for $a = 12$ and $b = -15$.

6. Add $16 + (-9)$.

7. Evaluate $a - b$ for $a = -7$ and $b = 14$.

8. Subtract $19 - (-21)$.

9. Multiply $3 \cdot (-8)$.

10. Divide $-72 \div (-9)$.

11. Simplify $(-5) \cdot (-4)$.

12. Solve $n - 6 = -13$.

13. Solve $\frac{g}{3} = -6$.

14. Paul withdrew \$43 from his savings account. The current balance is \$126. How much was the balance before his withdrawal?

15. Solve $-9 + e = 28$.

CHAPTER

Integers and Rational Numbers

2

Free Response Test A, continued

16. Write the decimal that is equivalent

to $\frac{4}{5}$.

17. Rochelle bought 20 trading cards, of which 13 were sports cards. Write the decimal that shows what portion of the cards were sports cards.

18. Write a fraction that is equivalent to 0.20.

19. There were a total of 24 cars in a parking lot. Of those cars, 6 were blue. Write a decimal that shows the numbers of cars that were blue.

20. Which number is the least?

$\frac{3}{8}$, 0.39, 0.246, $\frac{2}{5}$

21. Which number is greatest, $\frac{2}{3}$, 0.6, $\frac{3}{4}$, or 0.68?

22. Write the set of fractions in order

from least to greatest $\frac{1}{3}$, $\frac{2}{5}$, $\frac{3}{8}$.

CHAPTER

2

Integers and Rational Numbers

Free Response Test B

1. Which symbol, $<$, $>$ or $=$, makes the statement true?

$-10 \square 19$

2. Order the integers from least to greatest:

24, -11, 0, -13, -9.

3. Find $|-13|$.

4. At 6 A.M. the temperature was -14°C . In the afternoon, the temperature was 2°C . What was the change of temperature during the day?

5. Evaluate $a + b$ for $a = 35$ and $b = -18$.

6. Add $26 + (-18)$.

7. Evaluate $a - b$ for $a = -12$ and $b = 36$.

8. Subtract $37 - (-22)$.

9. Multiply $6 \cdot (-15)$.

10. Divide $-156 \div (-12)$.

11. Simplify $-9(4)$.

12. Solve $n - 15 = -35$.

13. Solve $\frac{g}{4} = -12$.

14. Bill withdrew \$123 from his savings account. The current balance is \$456. How much was the balance before his withdrawal?

15. Solve $-15 + j = 17$.

CHAPTER

Integers and Rational Numbers

2

Free Response Test B, continued

16. Write the decimal that is

equivalent to $\frac{5}{8}$.

17. Michelle bought 80 trading cards. 36 of the cards were sports cards. Write the decimal that shows how many of the cards were sports cards.

18. Write a fraction that is equivalent to 0.85.

19. There were a total of 32 clowns in the parade. Of those clowns, 8 were wearing a hat. Write a decimal that shows the number of clowns that were wearing a hat.

20. Which number is the least?

$0.675, \frac{4}{5}, 0.75, \frac{5}{8}$

21. Which number is greatest?

$\frac{6}{10}, 0.70, \frac{9}{12}, 0.72$

22. Write the set of fractions in order from least to greatest.

$\frac{10}{12}, \frac{8}{11}, \frac{7}{10}$

CHAPTER

2

Integers and Rational Numbers

Free Response Test C

1. Which symbol, $<$, $>$, or $=$, makes the statement true?

$-31 \square 47$

2. Order the integers from least to greatest: 56, -41 , 3, -98 , -74 .

3. Find the absolute value $|-351|$.

4. At 6 A.M. the temperature was -32°C . In the afternoon, the temperature was 27°C . What was the change of temperature during the day?

5. Evaluate $a + b$ for $a = -78$ and $b = 56$.

6. Add $52 + (-37)$.

7. Evaluate $a - b$ for $a = -62$ and $b = 49$.

8. Subtract $103 - (-86)$.

9. Multiply $27 \cdot (-13)$.

10. Divide $-544 \div (-34)$.

11. Simplify $(-23) \cdot (-54)$.

12. Solve $n - 68 = -112$.

13. Solve $\frac{g}{15} = -22$.

14. Mark withdrew \$889 from his savings account. The current balance is \$741. How much was the balance before his withdrawal?

15. Solve $-9 + t = 24$.

CHAPTER

Integers and Rational Numbers

2

Free Response Test C, continued

16. Write the decimal that is equivalent

to $\frac{1}{16}$.

17. Sammy bought 36 trading cards, of which 8 were sports cards. Write the decimal that shows how many of the cards were sports cards.

18. Write a fraction that is equivalent to 0.35.

19. There were a total of 32 questions on a test. Of those questions, Sophie answered 28 correct. Write a decimal that shows the numbers of questions that she answered incorrectly.

20. Which number is the least?

$\frac{2}{5}$, 0.39, $\frac{3}{8}$, 0.246

21. Which number is greatest, $\frac{17}{20}$, 0.78,

$\frac{31}{40}$, or 0.87?

22. Write the set of fractions in order

from least to greatest: $\frac{7}{9}$, $\frac{9}{11}$, $\frac{5}{8}$.

Integers and Rational Numbers

Answers

Section A Quiz

1. B
2. J
3. A
4. H
5. A
6. H
7. B
8. F
9. C
10. G

Section B Quiz

1. A
2. H
3. C
4. J
5. D
6. G
7. C

Multiple Choice Test A

1. D
2. A
3. B
4. D
5. D
6. B
7. B
8. A
9. A
10. A
11. B
12. B
13. D

14. B
15. B
16. D
17. A
18. B
19. D
20. B
21. D
22. A

Multiple Choice Test B

1. A
2. H
3. D
4. J
5. B
6. H
7. C
8. J
9. A
10. H
11. A
12. H
13. A
14. J
15. A
16. J
17. C
18. G
19. D
20. G
21. D
22. H

Multiple Choice Test C

1. A
2. H
3. D
4. J
5. C
6. G
7. A
8. J
9. D
10. F
11. D
12. G
13. A
14. H
15. C
16. H
17. B
18. H
19. D
20. H
21. C
22. G

Free Response Test A

1. <
2. -14, 0, 10
3. 6
4. 10 °C
5. -3
6. 7
7. -21
8. 40
9. -24
10. 8
11. 20
12. -7

13. -18
14. \$169
15. 37
16. 0.8
17. 0.65
18. $\frac{1}{5}$
19. 0.25
20. 0.246
21. $\frac{3}{4}$
22. $\frac{1}{3}, \frac{3}{8}, \frac{2}{5}$

Free Response Test B

1. <
2. -13, -11, -9, 0, 24
3. 13
4. 16 °C
5. 17
6. 8
7. -48
8. 59
9. -90
10. 13
11. -36
12. -20
13. -48
14. \$579
15. 32
16. 0.625
17. 0.45
18. $\frac{17}{20}$
19. 0.25
20. $\frac{5}{8}$

21. $\frac{9}{12}$

22. $\frac{7}{10}, \frac{8}{11}, \frac{10}{12}$

Free Response Topest C

1. <
2. -98, -74, -41, 3, 56
3. 351
4. 59°C
5. -22
6. 15
7. -111
8. 189
9. -351
10. 16
11. 1,242
12. -44
13. -330
14. \$1,630
15. 33
16. 0.0625
17. $0.\overline{2}$
18. $\frac{7}{20}$
19. 0.125
20. 0.246
21. 0.87
22. $\frac{5}{8}, \frac{7}{9}, \frac{9}{11}$

Performance Assessment

1. 8 tables \times 14 chairs = 112 eighth graders
12 tables \times 14 chairs = 168 seventh graders
2. 672 appetizers; 2 for each seventh-grader, 3 for each eighth-grader.

3. $\frac{3}{5}$ of the students are seventh graders.

4. $x = (168 - 155) + (112 - 95);$
 $x = 30;$ 30 students did not attend.

5. The fraction of students expected to attend that are seventh graders is $\frac{168}{280} = \frac{60}{100}$. The fraction of students who did attend that are seventh graders is $\frac{155}{250} = \frac{62}{100} \cdot \frac{62}{100} > \frac{60}{100}$.

Cumulative Test

1. B
2. H
3. A
4. F
5. D
6. F
7. B
8. G
9. B
10. H
11. A
12. J
13. C
14. J
15. B
16. J
17. A
18. H
19. A
20. H
21. A
22. F
23. C
24. H
25. D
26. H