

**MULTIPLE CHOICE**

1. 5NS1.1 a. 1. Round 4.123 to the nearest hundredth:

- a. 4.13
- b. 4.1
- c. 4.12
- d. 4.2

ANS: C

PTS: 1

DIF: Grade 5

REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.

OBJ: 5NS.1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers.

TOP: Number Sense

MSC: LFS & DB-343

2. 5NS1.1 a. 2. Round 13.082 to the nearest tenth:

- a. 13.09
- b. 13
- c. 13.1
- d. 13.08

ANS: C

PTS: 1

DIF: Grade 5

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OBJ: 5NS.1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers.

TOP: Number Sense

MSC: LFS & DB-343

3. 5NS1.1 b. 1. Round off 6296942 to the nearest million:

- a. 7000000
- b. 6300000
- c. 6200000
- d. 6000000

ANS: D                      PTS: 1                      DIF: Grade 5

REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.

OBJ: 5NS.1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers.                      TOP: Number Sense

MSC: LFS & DB-343

4. 5NS1.1 b. 2. Round off 6296942 to nearest hundred thousand:

- a. 7000000
- b. 6300000
- c. 6200000
- d. 6000000

ANS: B                      PTS: 1                      DIF: Grade 5

REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.

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MSC: LFS & DB-343

5. 5NS1.2 a.1. i Write this value as a decimal:  $\frac{17}{1000}$

- a. 0.0017
- b. 0.17
- c. 0.017
- d. 58.82

ANS: C                      PTS: 1                      DIF: Grade 5

REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.

OBJ: 5NS.1.2 Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number.                      TOP: Number Sense

MSC: LFS & DB-343

6. 5NS1.2 a.1. ii Write this value as a decimal:  $\frac{3}{20}$

- a. 0.03
- b. 0.015
- c. 0.15
- d. 0.2

ANS: C                      PTS: 1                      DIF: Grade 5

REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.

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MSC: LFS & DB-343

7. 5NS1.2 a.1. iii Write this value as a decimal: 6 %

- a. 0.2
- b. 0.66
- c. 0.6
- d. 0.06

ANS: D                      PTS: 1                      DIF: Grade 5

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MSC: LFS & DB-343

8. 5NS1.2 a.2. i Write this value as a fraction: 0.03:

- a.  $\frac{3}{100}$
- b.  $\frac{3}{1000}$

ANS: A                      PTS: 1                      DIF: Grade 5

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OBJ: 5NS.1.2 Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number.                      TOP: Number Sense

MSC: LFS & DB-343

9. 5NS1.2 a.2. ii Write this value as a fraction: 1.111:

a.  $\frac{1111}{100}$

b.  $\frac{1111}{1000}$

ANS: B

PTS: 1

DIF: Grade 5

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OBJ: 5NS.1.2 Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number.

TOP: Number Sense

MSC: LFS & DB-343

10. 5NS1.2 a.2. iii Write this value as a fraction: 8 %:

a.  $\frac{8}{100}$

b.  $\frac{8}{1000}$

ANS: A

PTS: 1

DIF: Grade 5

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11. 5NS1.2 a.2. iv Which of the following is a fraction equivalent to this value: 21

a.  $\frac{7}{3}$

b.  $\frac{21}{1}$

ANS: B

PTS: 1

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TOP: Number Sense

MSC: LFS & DB-343

12. 5NS1.2 a.3. i Write this value as a percent: 0.07:

- a. 70%
- b. 7%
- c. 0.7%

ANS: B

PTS: 1

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TOP: Number Sense

MSC: LFS & DB-343

13. 5NS1.2 a.3. ii Write this value as a percent: 0.165.

- a. 165%
- b. 16.5%
- c. 1.65%

ANS: B

PTS: 1

DIF: Grade 5

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TOP: Number Sense

MSC: LFS & DB-343

14. 5NS1.2 a.3. iii Write this value as a percent:  $\frac{17}{20}$ .

- a. 85%
- b. 17.2%
- c. 8.5%

ANS: A

PTS: 1

DIF: Grade 5

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TOP: Number Sense

MSC: LFS & DB-343

15. 5NS1.2 a.3. iv Write this value as a percent:  $\frac{1}{8}$ .

- a. 80 %
- b. 12.5 %
- c. 8 %

ANS: B                      PTS: 1                      DIF: Grade 5

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MSC: LFS & DB-343

16. 5NS1.2 b.1. What is 30 % of 20?

- a. 5
- b. 10
- c. 6
- d. 7

ANS: C                      PTS: 1                      DIF: Grade 5

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MSC: LFS & DB-343

17. 5NS1.2 b.2. What is 25 % of 48?

- a. 10
- b. 14
- c. 12
- d. 7

ANS: C                      PTS: 1                      DIF: Grade 5

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MSC: LFS & DB-343

18. 5NS1.2 b.3. What is 150% of 30?

- a. 50
- b. 45
- c. 35
- d. 40

ANS: B                      PTS: 1                      DIF: Grade 5

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MSC: LFS & DB-343

19. 5NS1.3 Write as a whole number:  $5^4$

- a. 625
- b. 125
- c. 1000
- d. 500

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.

OBJ: 5NS.1.3 Understand and compute positive integer powers of nonnegative integers; compute examples as repeated multiplication.                      TOP: Number Sense

MSC: LFS & DB-343

20. 5NS1.4 a. Write this number as the product of his prime factor, using exponents to show multiples of a factor if needed, for number 48:

- a.  $2^3 \cdot 3^2$
- b.  $2^4 \cdot 3$

ANS: B                      PTS: 1                      DIF: Grade 5

REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.

OBJ: 5NS.1.4 Determine the prime factors of all numbers through 50 and write the numbers as the product of their prime factors by using exponents to show multiples of a factor. TOP:                      Number Sense                      MSC: LFS & DB-343

21. 5NS1.4 b. Write this number as the product of his prime factor, using exponents to show multiples of a factor if needed, for number 36:

a.  $2^2 \cdot 3^2$

b.  $2^3 \cdot 3^3$

ANS: A                      PTS: 1                      DIF: Grade 5

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OBJ: 5NS.1.4 Determine the prime factors of all numbers through 50 and write the numbers as the product of their prime factors by using exponents to show multiples of a factor. TOP: Number Sense                      MSC: LFS & DB-343

22. 5NS2.1 a.1. Evaluate:  $3.20 \cdot 0.05$ :

a. 0.16

b. 1.6

c. 64

d. 0.016

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results. TOP: Number Sense                      MSC: LFS & DB-343

23. 5NS2.1 a.2. Evaluate:  $20 \div 0.05$ :

a. 400

b. 1

c. 40

d. 10

ANS: A                      PTS: 1                      DIF: Grade 5

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24. 5NS2.1 a.3. Evaluate:  $18 - 0.342$ :

- a. 17.648
- b. 17.658
- c. 17.668
- d. 17.758

ANS: B

PTS: 1

DIF: Grade 5

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TOP: Number Sense

MSC: LFS & DB-343

25. 5NS2.1 a.4. Evaluate:  $8.1 + 0.054 + 7$ :

- a. 16.154
- b. 14.254
- c. 14.154
- d. 15.154

ANS: D

PTS: 1

DIF: Grade 5

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TOP: Number Sense

MSC: LFS & DB-343

26. 5NS2.1 b.1. Evaluate:  $-4 - 3$ :

- a. -7
- b. -1
- c. 1
- d. 7

ANS: A

PTS: 1

DIF: Grade 5

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OBJ: 5NS.2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.

TOP: Number Sense

MSC: LFS & DB-343

27. 5NS2.1 b.2. Evaluate:  $-7 + 3$ :

- a. -4
- b. -10
- c. 4
- d. 10

ANS: A

PTS: 1

DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.

TOP: Number Sense

MSC: LFS & DB-343

28. 5NS2.1 b.3. Evaluate:  $-3 + 7$ :

- a. -4
- b. -10
- c. 4
- d. 10

ANS: C

PTS: 1

DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.

TOP: Number Sense

MSC: LFS & DB-343

29. 5NS2.1 b.4. Evaluate:  $-4 + (-3)$ :

- a. -7
- b. -1
- c. 1
- d. 7

ANS: A

PTS: 1

DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.

TOP: Number Sense

MSC: LFS & DB-343

30. 5NS2.1 b.5. Evaluate:  $-2 + (-7)$ :

- a. -9
- b. -5
- c. 5
- d. 9

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.                      TOP: Number Sense                      MSC: LFS & DB-343

31. 5NS2.1 b.6. Evaluate:  $-2 - (-7)$ :

- a. -9
- b. -5
- c. 5
- d. 9

ANS: C                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.                      TOP: Number Sense                      MSC: LFS & DB-343

32. 5NS2.2 a. Evaluate:  $45 \cdot \sqrt{32694}$ :

- a. 228.715
- b. 8136.667

ANS: B                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.2 Demonstrate proficiency with division, including division with positive decimals and long division with multidigit divisors.                      TOP: Number Sense  
MSC: LFS & DB-343

33. 5NS2.2 b. Evaluate:  $504 \div 2.1$ :

- a. 240
- b. 204

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.2 Demonstrate proficiency with division, including division with positive decimals and long division with multidigit divisors.                      TOP: Number Sense

MSC: LFS & DB-343

34. 5NS2.2 c. Evaluate:  $1324 \div 20$ :

- a. 66.2
- b. 662

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.2 Demonstrate proficiency with division, including division with positive decimals and long division with multidigit divisors.                      TOP: Number Sense

MSC: LFS & DB-343

35. 5NS2.3 a. Evaluate:  $\frac{3}{4} + \frac{2}{3}$ :

- a.  $\frac{17}{12}$
- b.  $\frac{6}{12}$
- c.  $\frac{5}{7}$

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.3 Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in the simplest form.

TOP: Number Sense

MSC: LFS & DB-343

36. 5NS2.3 b. Evaluate:  $2 - \frac{1}{3}$ :

a.  $\frac{5}{3}$

b.  $\frac{1}{3}$

c.  $-\frac{2}{3}$

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

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TOP: Number Sense

MSC: LFS & DB-343

37. 5NS2.3 c. Evaluate:  $3\frac{4}{5} - 2\frac{7}{10}$ :

a.  $1\frac{1}{10}$

b.  $\frac{11}{5}$

c.  $2\frac{5}{10}$

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.3 Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in the simplest form.

TOP: Number Sense

MSC: LFS & DB-343

38. 5NS2.3 d. Evaluate:  $3\frac{5}{12} - 1\frac{3}{18}$ :

a.  $2\frac{1}{4}$

b.  $2\frac{7}{36}$

c.  $2\frac{5}{18}$

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.3 Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in the simplest form.

TOP: Number Sense

MSC: LFS & DB-343

39. 5NS2.4 a. Evaluate:  $\frac{3}{4} \times \frac{8}{9}$ :

a.  $\frac{2}{3}$

b.  $\frac{11}{13}$

c.  $\frac{12}{27}$

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.4 Understand the concept of multiplication and division of fractions.

TOP: Number Sense

MSC: LFS & DB-343

40. 5NS2.4 b. Evaluate:  $\frac{2}{5} \div \frac{1}{2}$ :

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

b.  $\frac{2}{3}$

c.  $\frac{3}{7}$

ANS: A                      PTS: 1                      DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.4 Understand the concept of multiplication and division of fractions.

TOP: Number Sense

MSC: LFS & DB-343

41. 5NS2.5 a. A ribbon is 40 inches long. We want to cut the ribbon into pieces. Each piece will be  $\frac{2}{3}$  of an inch. How many pieces will we have?

- a. 60
- b. 120
- c. 80
- d. 40

ANS: A

PTS: 1

DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems.

TOP: Number Sense

MSC: LFS & DB-343

42. 5NS2.5 b. There are 20 bottles in a box. Each bottle weighs  $1\frac{3}{4}$  pounds. How many pounds do all the bottles weigh together?

- a. 35
- b. 45
- c. 40
- d. 30

ANS: A

PTS: 1

DIF: Grade 5

REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.

OBJ: 5NS.2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems.

TOP: Number Sense

MSC: LFS & DB-343

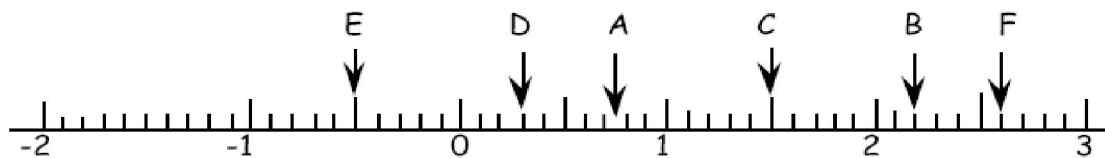
43. 5NS2.5 c. Richard has a large pizza. He gives away  $\frac{1}{3}$  of it, then he gives away  $\frac{1}{2}$  of what he has. How much pizza does Richard have left?

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

ANS: A                    PTS: 1                    DIF: Grade 5  
 REF: 5NS.2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals.  
 OBJ: 5NS.2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems.                    TOP: Number Sense  
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### MATCHING

5NS1.5



- |                    |                     |
|--------------------|---------------------|
| a. 1.5             | d. -0.5             |
| b. $2\frac{6}{10}$ | e. $\frac{75}{100}$ |
| c. 2.2             | f. 0.3              |

- The value of point A is:
- The value of point B is:
- The value of point C is:
- The value of point D is:
- The value of point E is:
- The value of point F is:

1. ANS: E                    PTS: 1                    DIF: Grade 5  
 REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.                    TOP: Number Sense  
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2. ANS: C                   PTS: 1                   DIF: Grade 5  
REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.   TOP: Number Sense  
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3. ANS: A                   PTS: 1                   DIF: Grade 5  
REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.   TOP: Number Sense  
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4. ANS: F                   PTS: 1                   DIF: Grade 5  
REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.   TOP: Number Sense  
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5. ANS: D                   PTS: 1                   DIF: Grade 5  
REF: 5NS.1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.   TOP: Number Sense  
MSC: LFS & DB-343
6. ANS: B                   PTS: 1                   DIF: Grade 5  
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