Answer Key (Units 1–2)

Unit 1 (p. 5)

1. 150,603
2. 1,002,003,000
3. fifteen million three hundred two thousand seven hundred fifty
4. 100,000 + 5,000 + 400 + 6
5. >
6. >
7. <
8. >
9. =
10. <

Unit 1 (p. 6)

1. ten thousand eight hundred seventy-five
2. 100,000 + 5,000 + 200 + 50; one hundred five thousand, two hundred fifty
3. 4,030,957; 4,000,000 + 30,000 + 900 + 50 + 7
4. 10,705,891; ten million seven hundred five thousand eight hundred ninety-one

5.-9. Answers may vary.

10. 81,740<101,978<380,746<408,083<501,004

Unit 1 (p. 7)

1. ten billion three million four hundred fifty-nine thousand twenty-seven
2. 401,702,368
3. 40,000,000 + 2,000,000 + 60,000 + 800 + 30 + 9
4. 12,111,320 > 9,461,008 > 8,979,554
5. A
6. D
7. D

Unit 2 (p. 9)

1. 20 + 4 + 7/10 + 6/100; twenty-four and seventy-six hundredths
2. 20 + 1 + 3/100 + 5/1,000; twenty-one and thirty-five thousandths
3. 400 + 4/100; four hundred and four-hundredths
4. 100 + 20 + 1 + 6/100; one hundred twenty-one and six-hundredths
5. 305.5; 300 + 5 + 5/10
6. 718.012; 700 + 10 + 8 + 1/100 + 2/1,000
7. 99.83; ninety-nine and eighty-three hundredths
8. 300 + 4/10; three hundred and four-tenths

Unit 2 (p. 10)

1. 6 + 1/10 + 7/100; six and seventeen-hundredths
2. 35.2; thirty-five and two-tenths
3. 4.579; four and five hundred seventy-nine thousandths
4. 802.06; 800 + 2 + 6/100
5. 200 + 6 + 4/100 + 7/1,000; two hundred six and forty-seven thousandths
6. 70 + 4 + 2/10 + 1/100; seventy-four and twenty-one hundredths
7. 8 + 9/100 + 6/1,000; eight and ninety-six thousandths
8. 20.62; 20 + 6/10 + 2/100
9. 95.4; 90 + 5 + 4/10
10. 605.03; six hundred five and three-hundredths

Unit 2 (p. 11)

1. 500 + 10 + 4/10 + 1/1,000
2. 352.4
3. ten and seven-tenths
4. 701.001
5. two hundred fifty-seven and five hundred seventy-two thousandths
6. 900 + 1 + 7/100 + 5/1,000
7. C
8. D

Answer Key (Units 3–5)

Unit 3 (p. 13)

1. <
2. >
3. <
4. >
5. <
6. =
7. <
8. <
9. >
10. <

Unit 3 (p. 14)

1. >
2. <
3. <
4. <
5. <
6. =
7. <
8. >
9. <
10. <
11. >
12. >
13. <
14. >
15. =
16. >
17. >
18. >
19. >
20. <

Unit 3 (p. 15)

1. Answers may vary.
2. Answers may vary.
3. Answers may vary.
4. Answers may vary.
5. Alicia
6. cheddar
7. D
8. C

Unit 4 (p. 17)

1. 11,120,058
2. 974,050
3. 21,141
4. 12,925
5. 1,651
6. 1,009,550
7. 18,213
8. 14,375
9. 400
10. 7,700
11. 11,000
12. 7,000

Unit 4 (p. 18)

1. 23,969
2. 1,022,191
3. 896,711
4. 20,806
5. 65,110
6. 322,541
7. 1,390
8. 37,918
9. 8,808
10. 39,973
11. 1,355
12. 44,878
13. 5,791
14. 52,990
15. 1,200
16. 25,100
17. 7,200
18. 43,000
19. 7,000
20. 9,000

Unit 4 (p. 19)

1. 850
2. $355
3. 4,000
4. $1,990
5. C
6. D

Unit 5 (p. 21)

1. 0.88
2. 0.79
3. 8.77
4. 1.02
5. 0.8
6. 1.12
7. 1.05
8. 1.28
9. 0.14
10. 0.59
11. 8
12. 2
13. 16
14. 2.1,
15. 3.8,
16. 4

Unit 5 (p. 22)

1. 2.08
2. 1.88
3. 5.17
4. 40.32
5. 25.56
6. 3.16
7. 3.72
8. 40.61
9. 3.9
10. 13.9
11. 6.91
12. 6.96
13. 7.68
14. 12.7
15. 0.66
16. 3.2
17. 12
18. 5
19. 1
20. 10.4
21. 8.5
22. 4

Unit 5 (p. 23)

1. 14.82
2. 0.98
3. $1.01
4. $1.25
5. 16 pounds
6. 0.63 feet
7. A
8. D

Answer Key (Units 6–8)

Unit 6 (p. 25)

1. 9, 12; 1, 3; 9, 12
2. 10, 15, 20; 1, 5; 10, 15, 20
3. 0, 7, 14, 21, 28; 1, 7; 0, 7, 14, 21, 28
4. 0, 10, 20, 30, 40; 1, 2, 5, 10; 0, 10, 20, 30, 40

Unit 6 (p. 26)

1. 1, 2, 4; 8, 12, 16, 20, 24, 28
2. 1, 2, 3, 6; 12, 18, 24, 30, 36, 42
3. 1, 2; 2, 4, 6, 8, 10, 12
4. 1, 5; 5, 10, 15, 20, 25, 30
5. 1, 3, 9; 9, 18, 27, 36, 45, 54

Unit 6 (p. 27)

1. 2
2. 8
3. 0, 6, 12, 18, 24
4. 0
5. B
6. D

Unit 7 (p. 29)

1. 800	2. 1,188
3. 372	4. 1,500
5. 2,793	6. 5,550
7. 13,120	8. 12,798
9. 23,370	10. 12,782
11. 20,928	12. 38,050
13. 34,701	

Unit 7 (p. 30)

1. 2,968	2. 2,720
3. 1,400	4. 4,320
5. 1,168	6. 1,650
7. 931	8. 2,376
9. 6,058	10. 27,590
11. 2,233	12. 15,980
13. 13,146	14. 11,900
15. 18,383	16. 9,984
17. 16,191	18. 14,314
19. 7,843	20. 8,436
21. 10,080	22. 10,530
23. 7,347	24. 34,003

Unit 7 (p. 31)

1. $648
2. 624 miles
3. 33,998 sq meters
4. 10,725 toys
5. 17,856 pages
6. 471,600 meters
7. A
8. B

Unit 8 (p. 33)

1. 242
2. 13
3. 21
4. 27
5. 63
6. 163
7. 181
8. 297
9. 1,618 R1
10. 2,738

Unit 8 (p. 34)

1. 120 R4	2. 67
3. 4,491	4. 27
5. 122 R1	6. 89
7. 21 R3	8. 1,541
9. 405 R1	10. 142 R1
11. 25 R1	12. 257
13. 163	14. 154
15. 114 R2	16. 59
17. 101 R4	18. 251 R1
19. 81 R4	20. 118 R2
21. 938 R5	22. 883
23. 1,456 R5	24. 1,266

Unit 8 (p. 35)

1. 131
2. 12 containers
3. 96 meters
4. 320 gallons
5. 345 miles
6. 586 tickets
7. B
8. C

Answer Key (Units 9–11)

Unit 9 (p. 37)

1. 29
2. 6
3. 22
4. 8
5. 22
6. 25
7. 113
8. 17
9. 30
10. 214
11. 71
12. 15
13. 70
14. 26 R27
15. 160 R22
16. 35 R13

Unit 9 (p. 38)

1. 195
2. 100 R6
3. 17
4. 647
5. 37
6. 89
7. 78
8. 25
9. 410
10. 86
11. 33
12. 425
13. 206
14. 200 R33
15. 240
16. 245
17. 108 R28
18. 37 R6
19. 523
20. 95
21. 201
22. 163
23. 131
24. 1,520

Unit 9 (p. 39)

1. 16 seats
2. 31 feet
3. 291 miles per minute
4. 86 feet
5. 465 pounds
6. 128 cubic feet
7. C
8. D

Unit 10 (p. 41)

1. 30,000
2. 10,000
3. 65,000,000
4. 144,000,000
5. 87,000
6. 42,000
7. 9,000
8. 39,000
9. 250,000,000
10. 570,000
11. 600,000
12. 5
13. 6
14. 2
15. 300

Unit 10 (p. 42)

1. 16
2. 8
3. 9
4. 15
5. 7
6. 8
7. 19
8. 30
9. 51
10. 33
11. 190
12. 123
13. $7
14. $8
15. $9
16. $11

Unit 10 (p. 43)

1. $29
2. $48
3. $6
4. 8,000 stamps
5. $22
6. 7 buses
7. A
8. C

Unit 11 (p. 45)

1. 4/3 or 1 1/3
2. 2/4 or 1/2
3. 10/8 or 1 1/4
4. 2/6 or 1/3
5. 5/3 or 1 2/3
6. 5/4 or 1 1/4
7. 0/8 or 0
8. 10/6 or 1 2/3

Unit 11 (p. 46)

1. 2/3
2. 4/3
3. 1/2
4. 1/2
5. 3/7
6. 6/7
7. 0
8. 4/5
9. 2/5
10. 3/10
11. 3/5
12. 2/5

Unit 11 (p. 47)

1. 3/5
2. 9/10
3. 1/4
4. 3/5
5. A
6. A

Answer Key (Units 12–15)

Unit 12 (p. 49)

Answers may vary.

1. 2/6	2. 4/6
3. 6/6	4. 2/4
5. 2/8	6. 6/8
7. 1/4	8. 1/2
9. 3/4	10. 1/5
11. 2/5	12. 3/5

Unit 12 (p. 50)

Answers may vary.

1. 4/6	2. 2/8
3. 4/10	4. 1/2
5. 2/2	6. 3/4
7. 1/3	8. 2/4
9. 3/3	10. 3/5
11. 2/3	12. 1/2
13. 1/4	14. 2/6
15. 8/10	

Unit 12 (p. 51)

1. 4	2. 3
3. 10	4. 8
5. D	6. D

Unit 13 (p. 53)

1. 10/24 or 5/12 2. 1/6

Unit 13 (p. 54)

1. 13/15	2. 1/15
3. 13/20	4. 5/12
5. 17/30	6. 3/20
7. 7/10	8. 1/6
9. 7/18	10. 11/45
11. 19/24	12. 1/21
13. 10/21	14. 10/33

Unit 13 (p. 55)

1. 19/20 hours
2. 1 cup
3. 1/24
4. 1/24

Unit 14 (p. 57)

1. 62°F; 69°F; 57°F
2. 15°C; 22°C; 10°C
3. 4:50; 7:05
4. 3:45; 6:00
5. 9:15; 11:30
6. 41°F
7. 15°F
8. 10:42 A.M.

Unit 14 (p. 58)

1. 58°F
2. 38°C
3. 50 minutes
4. 3 hours, 35 minutes
5. 27 minutes
6. 25 minutes
7. 108°F; 119°F; 100°F
8. 17°C; 28°C; 9°C

Unit 14 (p. 59)

1. 51 minutes
2. 15 minutes
3. 5:04 PM
4. 18 minutes
5. 12 noon
6. 83°F
7. D
8. D

Unit 15 (p. 61)

1. 63 2. 7 3. 57 4. 59

Unit 15 (p. 62)

1. Check students' work.
2. Check students' work.

Unit 15 (p. 63)

1. 9; 31; 24
2. 175; 21; 18
3. Check students' work
4. Check students' work.

Answer Key (Units 16–18)

Unit 16 (p. 65)

1. multiply by 4
2. divide by 3
3. subtract 15
4. subtract 6
5. multiply by $1.75
6. multiply by 31

Unit 16 (p. 66)

1. subtract 13
2. add 1, then multiply by 2 or multiply by 2, then add 2
3. divide by 2
4. multiply by 2/3
5. multiply by 1.75, then add 7.50
6. multiply by 18, then subtract (n–1)
7. multiply by 2, then subtract 3
8. add 2, then divide by 2
9. multiply by 3, then add 3
10. multiply by 3

Unit 16 (p. 67)

1. $160
2. $132
3. $42
4. $7.20
5. D

Unit 17 (p. 69)

1. composite 2. composite
3. composite 4. prime
5. composite 6. prime
7. composite 8. prime

Unit 17 (p. 70)

1. composite 2. prime
3. prime 4. composite
5. prime 6. composite
7. composite 8. composite
9. prime 10. prime
11. composite 12. prime
13. composite 14. composite
15. composite

Unit 17 (p. 71)

1. 8; 2, 3, 5, 7, 11, 13, 17, 19
2. 4; 23, 29, 31, 37
3. prime
4. 41, 43, 47
5. composite
6. 72, 74, 75, 76, 77, 78
7. C 8. B

Unit 18 (p. 73)

1. $18 \div 3 = n$
2. $4 \times 5 = 20$
3. $18 = 3 \times 6$
4. $n \div 5 = 4$
5. $(5 \times 5) + 1 = 26$
6. $393 = 3 \times n$
7. $654 \div n = 218$
8. $n - 6 = 20 - 19$

Unit 18 (p. 74)

1. $8 \times 3 = n$; ($n = 24$)
2. $2 \times 3 = n$; ($n = 6$)
3. $4 \times 6 = 24$
4. $17 - 8 = 9$
5. $4.50 \div 0.05 = 90$
6. $6 \times 5 = 30$
7. $562 \div 30 = 18$
8. $10.00 - 3.62 = 6.38$

Unit 18 (p. 75)

Answers may vary.

1. $3 \times 8 = 24$
2. $32 \div 8 = 4$
3. $48 \div 8 = 6$
4. $18 \div 6 = 3$
5. B 6. C
7. A 8. C

Answer Key (Units 19–21)

Unit 19 (p. 77)

Check students' work.

Unit 19 (p. 78)

Check students' work.

Unit 19 (p. 79)

1. quadrilateral, parallelogram, rhombus
2. rectangle

3–4. Check students' work.

5. D 6. B

Unit 20 (p. 81)

1. 3; 3; 3; 0 2. 3; 2; 3; 1
3. 4; 4; 4; 4
4. 5; 2 pairs or sets; 5; 2
5. 6; square; 3; 8
6. 2; circle; 1; 0

Unit 20 (p. 82)

Answers may vary.

1. C; three-dimensional figure
2. A; no right angles
3. C; no vertices
4. C; no parallel faces
5. B; not a quadrilateral or D; doesn't have acute angles
6. C; two-dimensional figure

Unit 20 (p. 83)

Answers may vary.

1. Same: Both two-dimensional quadrilaterals with at least 1 pair of opposite parallel, congruent sides and 2 sets of congruent angles and no right angles; Different: trapezoid has only 1 set of congruent angles; parallelogram has 2 sets
2. Same: Both two-dimensional shapes with at least 1 right angle and 2 congruent sides; Different: one triangle, one square.
3. Same: Both three-dimensional shapes with at least 1 circular face; Different: cylinder has 2 opposing parallel faces.
4. Same: Both two-dimensional shapes with at least 2 sets of congruent angles and at least 1 set of opposing sides; Different: pentagon has 5 sides and 2 right angles, trapezoid has 4 sides and no right angles.
5. Same: Both are triangular; Different: triangular prism is three-dimensional, triangle is two-dimensional.
6. Same: Both three-dimensional shapes with no opposing parallel faces; Different: one has a square base with 4 triangular sides and the other has a circle base with only 1 side.
7. C
8. A

Unit 21 (p. 85)

1. (1, 1) 2. (3, 11)
3. (7, 9) 4. (3, 6)
5. (8, 2) 6. (6, 3)
7. (9, 7) 8. (11, 3)
9. (2, 8) 10. (13, 12)

Unit 21 (p. 86)

1. (1, 2) 2. (1, 5)
3. (4, 5) 4. (4, 2)
5. (3, 9) 6. (8, 9)
7. (8, 7) 8. (12, 3)
9. (12, 1) 10.(8, 1)
11. (8, 3) 12. (10, 5)
13. square 14. triangle
15. pentagon

Unit 21 (p. 87)

1. (5, 3)
2. (3, 5)
3. (5, 9)
4. U
5. triangle
6. S, T, U, V
7. D 8. B

Answer Key (Units 22–24)

Unit 22 (p. 89)

Check students' work.

5. rotation

6. translation

Unit 22 (p. 90)

Check students' work.

4. rotation

5. reflection

6. rotation

7. reflection, translation

Unit 22 (p. 91)

1. rotation

2.–4. Check students' work.

5. C

Unit 23 (p. 93)

1. 0.02	2. 1.3
3. 9,000	4. 0.05
5. 4.02	6. 0.007
7. 30,000	8. 10.5

Unit 23 (p. 94)

1. 0.005	2. 0.36
3. 2.85	4. 1.9
5. 0.07	6. 0.305
7. 6,000	8. 807,000
9. 25,500	10. 1.1
11. 0.45	12. 0.01

Unit 23 (p. 95)

1. 150,000 mL

2. 48.567 metric tons

3. 250 boards

4. 17.5 km

5. 9.3 kg

6. 1.45 km

7. D 8. C

Unit 24 (p. 97)

1. 3

2. 5

3. 4

4. 6 lbs. 4 oz

5. 30,000

6. 64,000

7. 3,000

8. 6,500

9. 1.75 or 1 3/4

10. 2.5 or 2 1/2

11. 64,000

12. 4.0625 or 4 1/16

Unit 24 (p. 98)

Check students' work.

1. 6	2. 1/2
3. 12 1/4	4. 16
5. 4	6. 5
7. 8	8. 100
9. 108	10. 128
11. 53	12. 40

Unit 24 (p. 99)

1. 5 ft

2. 168 ft

3. 10 servings

4. 4 cups

5. 12 presents

6. 3,570 yd

7. B 8. D

Answer Key (Units 25–27)

Unit 25 (p. 101)

1. P = 20 units;
   A = 21 square units
2. P = 20 units;
   A = 25 square units
3. P = 28 units;
   A = 48 square units
4. P = 22 units;
   A = 24 square units
5. P = 26 feet;
   A = 30 square feet
6. P = 16 m;
   A = 16 m^2
7. P = 64 cm;
   A = 240 cm^2
8. P = 44 feet;
   A = 112 square feet

Unit 25 (p. 102)

1. P = 22 units;
   A = 28 square units
2. P = 30 units;
   A = 54 square units
3. P = 28 inches;
   A = 24 square inches
4. P = 28 cm;
   A = 49 cm^2
5. P = 36 units;
   A = 53 square units
6. P = 20 units;
   A = 23 square units
7. P = 60 ft;
   A = 200 square feet
8. P = 8 m;
   A = 3 m^2
9. P = 250 m;
   A = 2,500 m^2
10. P = 24 feet;
    A = 33 3/4 square feet

Unit 25 (p. 103)

1. 120 tiles
2. 98 square meters
3. 39 square feet
4. 32 tiles
5. D
6. C

Unit 26 (p. 105)

1. 180 cubic cm
2. 40 cubic ft
3. 84 cubic m
4. 144 cubic cm
5. 1,000 cubic m
6. 30 cubic m

Unit 26 (p. 106)

1. 80 cubic cm
2. 200 cubic ft
3. 3 m
4. 2 cm
5. 5 cm
6. 3 in
7. 3 cm
8. 8 cm
9. 4 units
10. 5 cm

Unit 26 (p. 107)

1. 80 cubic in
2. 90 cubic units
3. 96 cubic ft
4. 360 cubic cm
5. 512 cubic in
6. 2,772 cubic in
7. D 8. D

Unit 27 (p. 109)

1. 24; 48; 72; 144
2. 24; 120; Check students' work.

Unit 27 (p. 110)

1. 4x4x4; 64 cubic units
2. 3x2x4; 24 cubic units
3. 6x4x1; 24 cubic units
4. 5x3x4; 60 cubic units

Unit 27 (p. 111)

1. 120 cubic units
2. 60; 2x5x6 or 5x2x6 or10x1x6 or 1x10x6; 60 cubic units
3. 72 cubic units
4. 72 cubic units

Answer Key (Units 28–30)

Unit 28 (p. 113)

1. 1, 2, 3, 4, 5, 6
2. 6
3. 1/6
4. 3/6 or 1/2
5. 3/6 or 1/2
6. 0
7. A, E, W, X, Z
8. 5
9. 1/5 10. 2/5
11. 3/5
12. heads or tails
13. 2 14. 1/2

Unit 28 (p. 114)

1. triangles, circle, square, rectangle, parallelogram
2. 0/5 or 0
3. 3/5
4. 4/5
5. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
6. 10
7. 1/10
8. 1/2
9. 5/10 or 1/2
10. 9/10
11. 5/10 or 1/2

Unit 28 (p. 115)

1. 8
2. 5, 10, 15, 20, 25, 30, 35, 40
3. 0/8 or 0
4. 4/8 or 1/2
5. 1/8
6. 2/8 or 1/4
7. A
8. B

Unit 29 (p. 117)

1. 3 2. 5
3. 6 4. 15
5. 10 6. 20
7. 7 8. 14
9. 12

Unit 29 (p. 118)

1. 6 2. 8
3. 3 4. Steve
5. 10 6. 4
7. 45 8. 30

Unit 29 (p. 119)

1. 25 2. 10
3. 24 4. 15
5. B

Unit 30 (p. 121)

Check students' work.

1. temperature
2. time
3. 71°F
4. 78°F
5. 12°F
6. 2°F
7. 6 hours

Unit 30 (p. 122)

Check students' work.

1. add label
2. add years and label
3. pounds of beef per person
4. years
5. 1970
6. 46 pounds
7. 15 pounds
8. 1950–1970

Unit 30 (p. 123)

1. $15
2. $10
3. $60 more
4. $105
5. B
6. D

Answer Key (Units 31–34)

Unit 31 (p. 125)

1. 18, 25, 25, 27, 30, 31, 32; 27; 25; 14
2. 35; 33; 23
3. 5
4. 3
5. 2
6. 5
7. 4

Unit 31 (p. 126)

1. 85
2. 79
3. 16
4. median would become 87, mode would become 95, and range would still be 16
5. 24
6. 25
7. 6
8. $200,000
9. $400,000
10. $250,000
11. $250,000
12. no mode

Unit 31 (p. 127)

1. 302
2. 220
3. 220
4. 254
5. B
6. B

Unit 32 (p. 129)

Check students' work.

6. from week 6 to week 7

Unit 32 (p. 130)

Check students' work.

2. New York
3. 62
6. between February and March

Unit 32 (p. 131)

1.–2. Check students' work.

3. C
4. A

Unit 33 (p. 133)

1. sales tax
2. payroll
3. property tax
4. income tax

Unit 33 (p. 134)

1. $1.05
2. $16.05
3. $3.61
4. $48.76
5. $21.79
6. $167.04
7. $23.42
8. $298.92

Unit 33 (p. 135)

1. $235.91
2. $1,425
3. $810
4. $6,247.50

Unit 34 (p. 137)

1. $504.23
2. $641.83
3. $984.22
4. $500.90
5. $88.27
6. $211.48

Unit 34 (p. 138)

1. $84
2. $75.47
3. $570
4. $494.74

Unit 34 (p. 139)

1. $611.47
2. $489.46
3. $623.36
4. $1,340.25

Answer Key (Practice Assessments 1 – 2)

STAAR Practice Test 1 pages 140–164

1. C
2. B
3. A
4. C
5. C
6. C
7. B
8. D
9. A
10. A
11. B
12. D
13. B
14. A
15. A
16. C
17. B
18. B
19. D
20. B
21. C
22. A
23. B
24. A
25. D
26. D
27. A
28. A
29. C
30. B
31. A
32. B
33. C
34. D
35. A
36. B
37. A
38. D
39. D
40. A
41. C
42. C
43. A
44. C
45. B
46. A
47. B
48. 405
49. 10
50. 7

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1. B
2. A
3. C
4. B
5. D
6. C
7. B
8. D
9. C
10. D
11. B
12. D
13. A
14. D
15. B
16. C
17. C
18. A
19. C
20. B
21. A
22. C
23. A
24. C
25. B
26. A
27. A
28. C
29. B
30. A
31. C
32. D
33. A
34. D
35. A
36. D
37. B
38. C
39. B
40. C
41. A
42. A
43. B
44. A
45. C
46. A
47. A
48. 525
49. 12
50. 34