End-of-the-Year Test Grade 4 Answer Key

Instructions to the teacher:

My suggestion for grading is below. The total is 192 points. A score of 154 points is 80%.

Question	Max. points	Student score
Addition, Subtraction, Patterns, and Graphs		
1	2 points	
2a	1 point	
2b	2 points	
3	2 points	
4	6 points	
5	4 points	
6	2 points	
7	4 points	
8	3 points	
	subtotal	/ 26
Large Numbers and Place Value		
9	3 points	
10	2 points	
11	3 points	
12	3 points	
13	2 points	
14	3 points	
15	3 points	
16	4 points	
	subtotal	/ 23
Multi-Digit Multiplication		
17	6 points	
18	3 points	
19	8 points	
20	3 points	
21a	3 points	
21b	2 points	
21c	2 points	
21d	3 points	
	subtotal	/ 30

Question	Max. points	Student score
Time and Measuring		
22	2 points	
23	1 point	
24	3 points	
25	2 points	
26	6 points	
27	6 points	
28	2 points	
29	1 point	
30	2 points	
	subtotal	/ 25
Division and Factors		
31	4 points	
32	3 points	
33	4 points	
34a	3 points	
34b	2 points	
35	6 points	
36	4 points	
37	2 points	
38	4 points	
	subtotal	/ 32
Geometry		
39	2 points	
40	2 points	
41	3 points	
42	2 points	
43	2 points	
44	1 point	
45	2 points	
46	3 points	
	subtotal	/ 17

Question	Max. points	Student score
Fractions and Decimals		
47	1 point	
48	1 point	
49	3 points	
50	2 points	
51	4 points	
52	4 points	
53	2 points	
54	1 point	
55	3 points	
56	4 points	
57	4 points	
58	4 points	
59	4 points	
60	2 points	
	subtotal	/ 39
	TOTAL	**/ 192**

End-of-the-Year Test Grade 4 Answer Key

1. 1,980. Add to check: 1,980 + 543 + 2,677 equals 5,200.

2. a. ≈ $1 + $9 + $4 + $9 = $23
   b. Her bill is $1.28 + $8.92 + $3.77 + $9.34 = $23.31. Her change is $30 − $23.31 = $6.69.

3. Estimate: 5 × $0.90 + 2 × $1.20 = $4.50 + $2.40 = $6.90

4. a. 30; 84   b. 11; 14   c. 140; 19

5. a. $35 + x = $92 ; x = $57   b. x − 24 = 37 ; x = 61

6. a. 2,000   1,750   1,500   1,250   1,000   750   500   250

   b. 200, 500, 800, 1100, 1400, 1700

7. In the frequency table we list how many students got that score.

Quiz score	Frequency
1	0
2	1
3	0
4	1
5	3
6	5
7	5
8	4
9	3
10	2
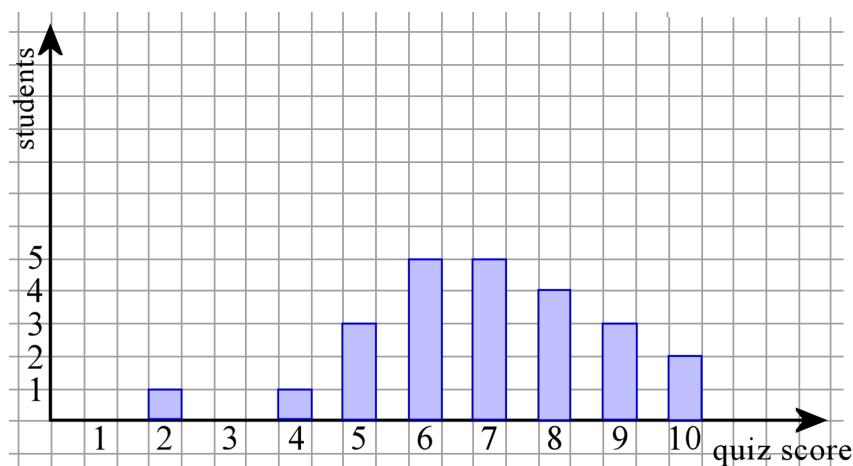
8.

Rubber boots used to cost $27.95 but now the price is $21.45. How much is the discount? $21.45 + x = $27.95 OR x = $27.95 − $21.45 x = $6.50	⟵ original price $27.95 ⟶ $21.45 | x

9. a. 1,999   b. 4,980   c. 5,700

10. a. 800,050   b. 25,407

11. a. 30,000   b. 9,000   c. 600

12. a. <   b. >   c. >

13. 27,200   217,200   227,200   227,712

14. a. 440,000   b. 90,000   c. 27,500

15. a. 430,000   b. 500,000   c. 10,000

16. a. 501,663   b. 323,688

17. a. 210   b. 4,800   c. 3,200   d. 120   e. 80   f. 70

18. a. $160   b. $800   c. four days, since 4 × $160 = $640

19. a. estimate 5 × 200 = 1,000. Exact: 980
 b. estimate 40 × 40 = 1,600 or 30 × 40 = 1,200. Exact: 1,330
 c. estimate 7 × 3,000 = 21,000. Exact: 22,316
 d. estimate 90 × 20 = 1,800. Exact: 1,958

20.

Area = 8 × 127   = 8 × 100 + 8 × 20 + 8 × 7   = 800 + 160 + 56 = 1,016

21. a. Answers may vary. For example: $400 – 26 × $14 = $400 – $364 = $36. Or, 26 × $14 = $364 and $400 – $364 = $36.
 b. 24 × 60 minutes = 1,440 minutes
 c. Answers may vary. For example: 4 × 375 cm = 1,500 cm. Or, 375 cm + 375 cm + 375 cm + 375 cm = 1,500 cm
 d. Answers may vary. For example: ($277 – $58) × 8 = $1,752. Or, $277 – $58 = $219 and 8 × $219 = $1,752.

22. Answers may vary if the test is printed with "shrink to fit" or "fit to printable area", or because of slight variability in rulers, or because of measuring inaccurately. Please check students' answers.
 a. 5 1/4 in. or 13 cm 3 mm. 13 cm 4 mm is also acceptable.　　b. 3 7/8 in. or 9 cm 8 mm. 9 cm 9 mm is also acceptable.

23. 6 hours 12 minutes

24. 1 h 45 min + 50 min + 1 h 15 min + 2 h 15 min + 55 min = 4 h 180 min, which is 7 hours.

25. She worked 7 hours 30 minutes. From 7:00 am till 3:35 pm is 8 hours 35 minutes. Subtract from that 65 minutes, or 1 hour 5 minutes, to get 7 hours 30 minutes.

26.

a.	b.	c.
6 lb = 96 oz 2 lb 11 oz = 43 oz	5 gal = 20 qt 2 qt = 8 cups	4 ft 2 in. = 50 in. 7 yd = 21 ft

27.

a.	b.	c.
2 kg = 2,000 g 11 kg 600 g = 11,600 g	5 L 200 ml = 5,200 ml 3 m = 300 cm	8 cm 2 mm = 82 mm 10 km = 10,000 m

28. In four days, he jogs 15 km 200 m.

29. 1 L 650 ml

30. 17 ft 8 in

31. a. 63. Check: 63 × 9 = 567　　b. 2,141. Check: 2141 × 4 = 8,564

32. a. 9 R2　　b. 8 R1　　c. 6 R3

33. a. Three photos on the last page; five pages were full.
 b. Your neighbor should be $36, because one foot of the fence costs $3.

34. a. It cost $99. First find 1/8 of $264: $264 ÷ 8 = $33. Then to find 3/8 of it, multiply 3 × $33 = $99.
 b. She needs 20 bags. 117 ÷ 6 = 19 R3. Notice she needs a bag also for the three muffins that don't fill a bag.

35.

| number	divisible by 1	divisible by 2	divisible by 3	divisible by 4	divisible by 5	divisible by 6	divisible by 7	divisible by 8	divisible by 9	divisible by 10
80	x	x		x				x		x
75	x		x		x					
47	x									

36.

a. Is 5 a factor of 60?	b. Is 7 a divisor of 43?
Yes, because _5_ × _12_ = _60_.	_No_, because _43_ ÷ _7_ = 6 R1 (the division is not even).
c. Is 96 divisible by 4? _Yes_, because _96 ÷ 4 = 24_ (the division is even).	d. Is 34 a multiple of 7? _No_, because 34 is not in the multiplication table of 7. OR: No, because 34 ÷ 7 = 4 R6; the division is not even. OR: No, because there is no whole number you can multiply by 7 to get 34.

37. Answers vary. For example: 2, 3, and 5. Here is a list of primes less than 100:
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

38. a. 1, 2, 4, 7, 8, 14, 28, 56   b. 1, 2, 3, 6, 13, 26, 39, 78

39. 155°
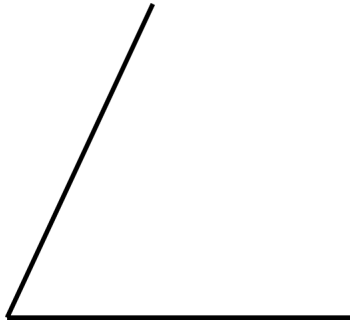
40. Check students' answers.

41. Answers vary. Check students' answers. The sum of the angle measures should be 180° or very close.
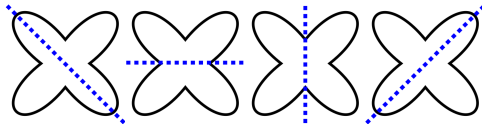
42. 29° + x = 180°; x = 151°.

43. Right angles.
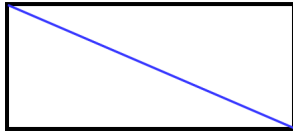
44. Answers vary. Check students' answers. For example:
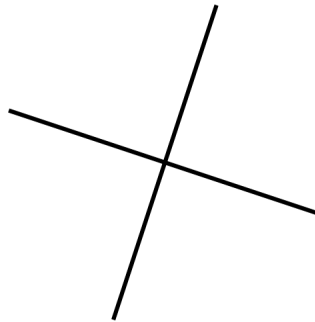
45.

46. Use subtraction. A = 28 ft × 12 ft − 6 ft × 10 ft = 336 ft² − 60 ft² = 276 ft².

47. $\dfrac{5}{8} + \dfrac{5}{8} = 1\dfrac{2}{8}$

48. There are still 2/4 or 1/2 of it left to do.

49. a. 1 2/5   b. 5/6   c. 6

50.

a. Each piece is split
into 2 new ones.

$$\frac{4}{5} \ = \ \frac{8}{10}$$

b. Each piece is split
into _3_ new ones.

$$\frac{2}{3} \ = \ \frac{6}{9}$$

51.

a. $\frac{2}{3} = \frac{10}{15}$	**b.** $\frac{3}{5} = \frac{9}{15}$	**c.** $\frac{1}{6} = \frac{2}{12}$	**d.** $\frac{1}{3} = \frac{3}{9}$

52. a. >   b. >   c. <   d. <

53. $\dfrac{65}{100} \ < \ \dfrac{7}{10} \ < \ \dfrac{5}{4}$

54. 2 1/4 cups

55. a. 1/8   b. 1 3/5   c. 1 2/12

56.
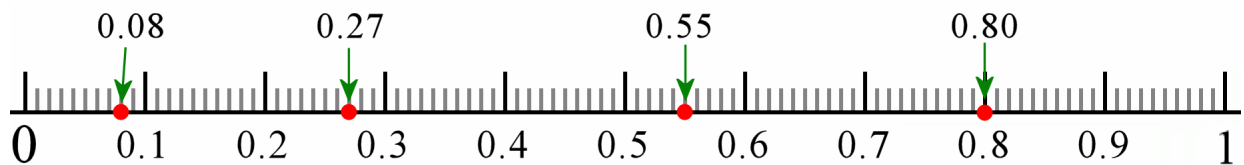
57. a. 0.3   b. 3.9   c. 0.09   d. 7.45

58. a. 6/10   b. 6 7/10   c. 21/100   d. 5 5/100

59. a. <   b. >   c. <   d. =

60. a. 13.01   b. 3.74