End-of-Year Test Grade 3 Answer Key

Instructions to the teacher: My suggestion for grading is below. The total is 219 points. A score of 175 points is 80%.

Grading on question 1 (the multiplication tables grid): There are 144 empty squares to fill in the table, and the completed table is worth 14 points. Count how many of the answers the student gets right, divide that by 10, and round to the nearest whole point. For example: a student gets 24 right. 24/10 = 2.4, which rounded becomes 2 points. Or, a student gets 85 right. 85/10 = 8.5, which rounds to 9 points.

Grading on question 2: Each question is worth 1/2 point.

Question	Max. points	Student score			
Multiplication Tables and Basic Division Facts					
1	14 points				
2	8 points				
3	8 points				
	subtotal	/ 30			
Add	lition and Sul	btraction			
4	6 points				
5	6 points				
6	3 points				
7	2 points				
8	3 points				
	subtotal	/ 20			
Reg	rouping and I	Rounding			
9	3 points				
10	2 points				
11	4 points				
12	3 points				
13	4 points				
14	3 points				
	subtotal	/ 19			
Multiplic	ation and Rel	ated Concepts			
15	1 point				
16	1 point				
17	3 points				
18	3 points				
19	3 points				
20a	2 points				
20b	2 points				
20c	2 points				
20d	2 points				
	subtotal	/ 19			

Question	Max. points	Student score			
	Time				
21	6 points				
22	2 points				
23	4 points				
24	4 points				
	subtotal	/ 16			
	Graphs				
25	4 points				
26	3 points				
	subtotal	/ 7			
	Money				
27	4 points				
28	3 points				
29	3 points				
	subtotal	/ 10			
F	our-Digit Nu	mbers			
30	2 points				
31	2 points				
32	5 points				
33	4 points				
34	4 points				
	subtotal / 17				
Divisio	n and Relate	d Concepts			
35	2 points				
36	9 points				
37	6 points				
38	6 points				
	subtotal	/ 23			

Question	Max. points	Student score
	Measurin	g
39	2 point	
40	1 point	
41	1 point	
42	1 point	
43	6 points	
	subtotal	/ 11
	Geometr	y
44	6 points	
45	3 points	
46	2 points	
47	3 points	
48	2 points	
49	2 points	
50	2 points	
	subtotal	/ 20

Question	Max. points	Student score
	Fraction	s
51	5 points	
52	5 points	
53	4 points	
54	3 points	
55	2 points	
56	5 points	
57	3 points	
	subtotal	/ 27
	TOTAL	/ 219

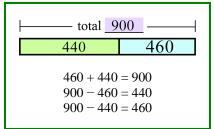
End-of-Year Test Grade 3 Answers

1.

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

2. a. 14, 24, 25, 36	b. 28, 40, 27, 35	c. 9, 16, 49, 32	d. 56, 30, 48, 54
3. a. 7, 5, 8, 7	b. 8, 5, 11, 7	c. 9, 7, 4, 9	d. 10, 8, 3, 3
4. a. 310, 149	b. 620, 344 c	. 148, 80	
5. a. 33, 5 b. 64	43, 45 c. 15	5, 378	

6.



7. 160 miles. Note that the half-way point is at 150 miles. They stopped at 140 miles (10 miles before 150 miles).

- 8. Equation: 400 + 400 600 = 200 (or $2 \times 400 600 = 200$) Solution: He took 200 off the price.
- 9. a. 90 b. 610 c. 460

10. Round \$78 to \$80. 80 + 80 + 80 + 80 + 80 + 80 = 480. He can buy the phone after 6 weeks.

11. a. \triangle is 294. Solve by subtracting 708 – 414. b. \triangle is 824. Solve by adding 485 + 339.

12. a. \$545 + \$52 = \$310 + m

b. Estimates may vary. \$550 + \$50 = \$600; \$600 - \$310 = \$290. He needs about \$290 more. c. \$545 + \$52 = \$597; \$597 - \$310 = \$287. He needs \$287 more.

13. a. 579. To check, add 579 + 383 = 962 using the grid. b. 157. To check, add 157 + 549 = 703 using the grid.

1 0

	1 2
14. a. Estimate, rounding to the nearest ten:	8 2
80 + 540 + 150 + 10 = 780	539
b. By estimating with easier to add numbers, he can see that	154
something is wrong with his calculation.	+ 8
c. The 8 needs moved to the ones column.	783

16.75

17. a. 240 b. 490 c. 300

18. a. $7 \times 4 = 28$ legs b. $5 \times 2 = 10$ legs c. $8 \times 4 + 6 \times 2 = 44$ legs

19. a. 48 b. 20 c. 41

20. a. 3 × 12 = 36. She needs 36 rolls.
b. 8 × 4 = 32. You need 8 tables.
c. 3 × \$8 + 3 × \$6 = \$42. It would cost \$42.
d. 7 × 4 = 28. She will need 7 bags.

21.

	a. 10:51	b. 5:38	c. 3:57
10 min. later	11:01	5:48	4:07

22. a. 19 minutes b. 31 minutes

23. a. 23 minutes b. 33 minutes

24. a. She watched for 17 minutes b. It should go in at 5:45 PM.

25. a. 40 hours

- b. 10 hours
- c. 10 hours

d. 45 hours

- 26. Three hours is a good number to have each tennis ball represent, since each player's practice time is divisible by 3. Two could also be used, with half of a ball drawn to represent the odd hours.
- 27. a. Total: \$9.60 Change: \$0.40 b. Total: \$8.90 Change: \$1.10

28. a. \$25.54 b. \$12.40 c. \$26.85

- 29. His change is \$2.45.
- 30. a. 5,205 b. 2,094 c. 7,300 d. 8,002
- 31. a. 700 b. 2,000
- 32. a. > b. < c. < d. > e. >
- 33. a. 5,700; 8,600 b. 1,200; 7,800
- 34. a. 5,261; 5,261 + 2,888 = 8,149 b. 2,687; 2,687 + 3,749 = 6,436
- 35. $3 \times 6 = 18$ $18 \div 3 = 6$ $6 \times 3 = 18$ $18 \div 6 = 3$
- 36. a. 10 b. 8 c. 8 d. 9 e. 5 f. 40 g. 6 h. 108 i. 8
- 37. a. 17, not possible b. 1, not possible c. 1, 0
- 38. a. \$16 + \$14 ÷ 3 = \$10. Each child paid \$10.00.
 b. 6 × 10 + (10 − 1) = 69 (or 7 × 10 − 1 = 69). There are 69 passengers.
 c. 24 ÷ 6 = 4. They used 4 containers.
- 39. Check the student's answers.

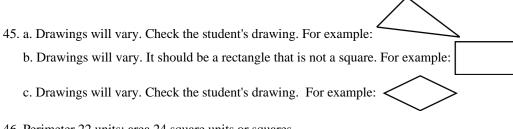
a. —

- 40. mm cm m km
- 41. 355 g (grams)
- 42. There are 12 liters of water.

43. a. km or miles b. cm
c. kg/lb d. kg
e. C (cups) f. ml
44. a. Shape 2
b. Shape 3

- c. Shape 1
- d. Shape 4
- e. Shape 6
- f. Shape 5

Tennis Practice			
Ava			
Juan	_		
Greg			
Adelaide			
\bigcirc = 3 hours			

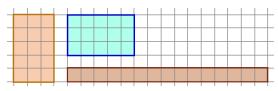


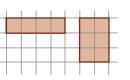
- 46. Perimeter 22 units; area 24 square units or squares. Note that the student should also give the "units" and "square units" or "squares", not just a plain number.
- 47. a. Part 1: 108 m² Part 2: 270 m² b. 96 m Note that the student should also give the units "m²" and "m" in his/her answer, not just plain numbers.
- 48.9 inches

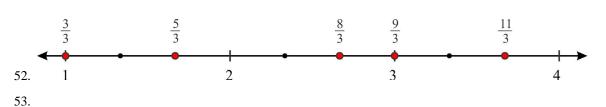
51. a. $\frac{3}{8}$

- 49. a. The sides of the rectangle could be 5 and 3, or 15 and 1. Some examples are shown on the right.
 - b. The sides of the rectangle could be 1 and 4, or 2 and 3. See the image on the right.
- 50. $4 \times (2+5) = 4 \times 2 + 4 \times 5 = 28$ squares (or square units)

b. $\frac{5}{6}$ c. $\frac{8}{3}$





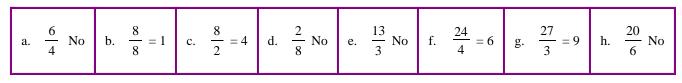


c. $\frac{2}{3}$

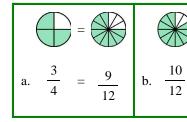
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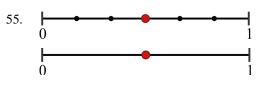
e.

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



54.





56. a. < b. < c. = d. > e. =

57. a. Cannot make a valid comparison. $b_{.} =$

c. The fractions are 3/8 and 1/3, however you cannot make a valid comparison, because the shapes are not the same size.