## 7<sup>th</sup> Grade Accelerated Math

## For 1-24, evaluate each completely. Show work on blank piece of paper when possible.

#1 answer: \_\_\_\_\_

4. 
$$-14 + (-5)$$

#4 answer: \_\_\_\_\_

#7 answer: \_\_\_\_\_

10. 
$$-14 + 8 - 5 - 8$$

#10 answer: \_\_\_\_\_

13. 
$$\frac{-72}{-9}$$

#13 answer: \_\_\_\_\_

16. 
$$a^2 - 49$$
  
 $a = -7$ 

#16 answer: \_\_\_\_\_

19. 
$$2\frac{1}{8} + \frac{3}{4}$$

#19 answer: \_\_\_\_\_

22. 
$$-3\frac{1}{6} + 3\frac{3}{4}$$

#2 answer: \_\_\_\_

#5 answer: \_\_\_\_\_

#8 answer: \_\_\_\_\_

11. 
$$-5 - 7 + 3 + 3$$

#11 answer: \_\_\_\_\_

14. 
$$-a + -15$$
  
  $a = -2$ 

#14 answer: \_\_\_\_\_

17. 
$$-a - b$$
  
  $a = 4, b = -3$ 

#17 answer: \_\_\_\_\_

20. 
$$2\frac{1}{8} \cdot \frac{4}{5}$$

#20 answer: \_\_\_\_\_

23. 
$$-8 \div -4\frac{4}{7}$$

3. -6 - 11

#3 answer: \_\_\_\_\_

6. 
$$-|-8+5|$$

#6 answer: \_\_\_\_\_

#9 answer: \_\_\_\_\_

12. 
$$-7^2$$

#12 answer: \_\_\_\_\_

15. 
$$a - b$$
  
  $a = -9$ ,  $b = -7$ 

#15 answer: \_\_\_\_\_

18. 
$$(-7)^2 \bullet - 2 + 8$$

#18 answer: \_\_\_\_\_

21. 
$$-2\frac{1}{8} \div 6\frac{1}{2}$$

#21 answer: \_\_\_\_\_

24. 
$$-5\frac{1}{2} - 2\frac{3}{5}$$

25. Julie is a cheerlead	er and is making a banner to u	ise at games. She needs $1^{\frac{8}{0}}$	of a yard of material for the banner,		
but she only has $\frac{3}{4}$ of a	a yard right now. Distinguish ho	ow much more material she n	eeds? Show your work for full credit		
		#25 answ	er:		
	e is 10 inches long. Distinguishece is to be two—thirds of an		e can be cut from the 10-inch piece ull credit!		
		#26 answ	er:		
27. Ryan is planting a g Distinguish how much o	parden that takes up $\frac{1}{4}$ of his left his backyard will be made up	backyard. He plans to plant for of flowers? Show your work	er: lowers in only $\frac{1}{3}$ of the garden. for full credit!		
28. Fill in the table be	elow:	#27 answ	er:		
Fractio	on	Decimal	Percent		
3 4					
		0.67	9%		
1/9					
		3.5			
For 29-40, evalua	ate each completely.				
29. √81	30√36	31. <sup>8</sup> √27	32. $-\sqrt[8]{125}$		
#29 answer:	#30 answer:	#31 answer:	#32 answer:		
33. $\sqrt{-25}$ 34. $\sqrt{289}$		35. ∜−125	36. <sup>3</sup> √216		
#33 answer:	#34 answer:	#35 answer:	#36 answer:		
37. $\pm \sqrt{\frac{64}{100}}$ 38. $\sqrt{\frac{16}{49}}$		39. Find the squa	re roots of 64		
#37 answer:	#38 answer:	#39 answer:	_		

40.  $\sqrt{3(4)-16\div4+9\cdot2-1}$  For 41–43, estimate each to the nearest tenths place.

41. 
$$\sqrt{52}$$

#40 answer: \_\_\_\_

Order the following from least to greatest.

44. 
$$\sqrt{7}$$
, 3,  $\pi$ ,  $\sqrt{5}$ , 2, 3.5

44. 
$$\sqrt{7}$$
, 3,  $\pi$ ,  $\sqrt{5}$ , 2, 3.5 #44:

For 45-47, write each of the following numbers in scientific notation.

For 48-50, write each of the following numbers in standard notation.

48. 
$$4.26 \times 10^{-7}$$
 49.  $9.2 \times 10^{-5}$ 

50. 
$$2.734 \times 10^{12}$$

#48: \_\_\_\_\_\_#49: \_\_\_\_\_\_ #50: \_\_\_\_\_

For 51-54, write each answer using scientific notation.

51. 
$$5.8 \times 10^8 - 2.3 \times 10^5$$

52. 
$$1.8 \times 10^3 + 5.4 \times 10^6$$

53. 
$$8.4 \times 10^9 \div 2.1 \times 10^5$$

54. 
$$3.1 \times 10^7 \bullet 4.6 \times 10^3$$

**#53:** \_\_\_\_\_\_

**#54:** \_\_\_\_\_

					_	_		_		_	_
For	<i>55–62</i>	determine	if the f	followina :	numbers a	are Ration	al (R	) or	Trrational	/T	1
	<i>55 02,</i>	acter iiiiii		onoming	mannbers t	ai C ixacioii	ui (it	,	III acionai	L -	/-

55. √5

56. π

57. √<u>16</u>

58. 58.71

#55 \_\_\_\_\_

#56 \_\_\_\_\_

#57 \_\_\_\_\_

#58 \_\_\_\_\_

59. 11

60. -3

61. 7.13945...

62. 5.464646...

#59\_\_\_\_

#60 \_\_\_\_\_

#61 \_\_\_\_\_

#62 \_\_\_\_\_

## For 63-67, use the following information. Mr. Roy's first hour earned the following scores (as a percent) on this test:

94, 88, 85, 96, 81, 74, 88, 91, 101, 98, 93, 82, 34, 77, 83

63. Identify the mean score on the test. (Nearest tenth)

#63 \_\_\_\_\_

64. Identify the median score on the test.

#64 \_\_\_\_\_

65. Identify the mode(s).

#65 \_\_\_\_\_

66. Identify the range.

#66 \_\_\_\_\_

67. Distinguish which of the above is the best way to represent this data (the best measure of central tendency)? WHY?

#67 \_\_\_\_\_

#67 Reason \_\_\_\_\_