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## $7^{\text {th }}$ Grade Accelerated Math

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

1. $(-5)(-7)(2)$
\#1 answer: $\qquad$
2. $-14+(-5)$
\#4 answer: $\qquad$
3. $-6 \cdot 5$
\#7 answer: $\qquad$
4. $-14+8-5-8$
\#10 answer: $\qquad$
5. $\frac{-72}{-9}$
\#13 answer: $\qquad$
6. $a^{2}-49$ $a=-7$
\#16 answer: $\qquad$
7. $2 \frac{1}{8}+\frac{3}{4}$
\#20 answer: $\qquad$
8. $-8 \div-4 \frac{4}{7}$
\#21 answer: $\qquad$
\#19 answer: $\qquad$
9. $-3 \frac{1}{6}+3 \frac{3}{4}$
10. $2 \frac{1}{8} \cdot \frac{4}{5}$
$\qquad$
11. $-\mathrm{a}-\mathrm{b}$
$a=4, b=|-3|$
\#17 answer:
\#18 answer: $\qquad$
12. $-2 \frac{1}{8} \div 6 \frac{1}{2}$
13. $9-13$
\#2 answer: $\qquad$
14. $-4-(-3)$
\#5 answer: $\qquad$
15. $-28 \div-4$
\#8 answer: $\qquad$
16. $-5-7+3+3$
\#11 answer: $\qquad$
17. $-\mathrm{a}+-15$
$a=-2$
\#14 answer: $\qquad$ \#15 answer: $\qquad$
18. $(-7)^{2} \bullet-2+8$
19. $a-b$ $a=-9, b=-7$
$\qquad$
$\qquad$ \#24 answer: $\qquad$
20. Julie is a cheerleader and is making a banner to use at games. She needs $1 \frac{8}{9}$ of a yard of material for the banner, but she only has $\frac{3}{4}$ of a yard right now. Distinguish how much more material she needs? Show your work for full credit! \#25 answer: $\qquad$
21. An Italian sausage is 10 inches long. Distinguish how many pieces of sausage can be cut from the 10 -inch piece of sausage if each piece is to be two-thirds of an inch? Show your work for full credit!
\#26 answer: $\qquad$
22. Ryan is planting a garden that takes up $\frac{1}{4}$ of his backyard. He plans to plant flowers in only $\frac{1}{3}$ of the garden. Distinguish how much of his backyard will be made up of flowers? Show your work for full credit!
\#27 answer: $\qquad$
23. Fill in the table below:

| Fraction | Decimal | Percent |
| :---: | :---: | :---: |
| $\frac{3}{4}$ |  |  |
|  |  | $\mathbf{9 \%}$ |
| $\frac{1}{9}$ |  |  |
|  |  |  |
|  |  |  |

## For 29-40, evaluate each completely.

29. $\sqrt{81}$
30. $-\sqrt{36}$
31. $\sqrt[8]{27}$
32. $-\sqrt[3]{125}$
\#29 answer: $\qquad$ \#30 answer: $\qquad$ \#31 answer: $\qquad$ \#32 answer: $\qquad$
33. $\sqrt{-25}$
34. $\sqrt{289}$
35. $\sqrt[8]{-125}$
36. $\sqrt[8]{216}$
\#33 answer: $\qquad$ \#34 answer: $\qquad$ \#35 answer: $\qquad$ \#36 answer: $\qquad$
37. $\pm \sqrt{\frac{64}{100}}$
38. $\sqrt{\frac{16}{49}}$
39. Find the square roots of 64
$\qquad$ \#38 answer: $\qquad$ \#39 answer: $\qquad$
40. $\sqrt{3(4)-16 \div 4+9 \cdot 2-1}$

For 41-43, estimate each to the nearest tenths place .
41. $\sqrt{52}$
42. $\sqrt{7}$
43. $\sqrt{97}$
\#40 answer: $\qquad$ \#41 $\qquad$ \#42 $\qquad$ \#43 $\qquad$
Order the following from least to greatest. 44. $\sqrt{7}, 3, \pi, \sqrt{5}, 2,3.5$ \#44: $\qquad$

For 45-47, write each of the following numbers in scientific notation.
45. 820,000,000
46. 0.0000065
47. 6.7E-5
\#45: $\qquad$ \#46: $\qquad$ \#47: $\qquad$

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: $\qquad$ \#49: $\qquad$ \#50: $\qquad$

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

51. $5.8 \times 10^{8}-2.3 \times 10^{5}$
52. $1.8 \times 10^{3}+5.4 \times 10^{6}$
\#51: $\qquad$
53. $8.4 \times 10^{9} \div 2.1 \times 10^{5}$
\#52: $\qquad$
54. $3.1 \times 10^{7} \bullet 4.6 \times 10^{3}$
\#54: $\qquad$

For 55-62, determine if the following numbers are Rational (R) or Irrational (I).
55. $\sqrt{5}$
56. $\pi$
57. $\sqrt{16}$
58. 58.71
\#55 $\qquad$ \#56 $\qquad$
\#57 $\qquad$
\#58 $\qquad$
59. 11
60. -3
61. 7.13945...
62. 5.464646...
\#59 $\qquad$ \#60 $\qquad$ \#61 $\qquad$ \#62 $\qquad$

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 $\qquad$
64. Identify the median score on the test.
\#64 $\qquad$
65. Identify the mode(s).
\#65 $\qquad$
66. Identify the range .
\#66 $\qquad$
67. Distinguish which of the above is the best way to represent this data
(the best measure of central tendency)? WHY?
\#67 $\qquad$

