Name _____ Class _____ Date _____

Grade 7 Beginning-of-Year Math Worksheet

Write each in standard form.

1. $(5 \times 10^4) + (6 \times 10^1) + (7 \times 10^{-2})$

2. $(2 \times 10^5) + (3 \times 10^3) + (3 \times 10^0)$

Order from greatest to least.

3. 7.21, 7, 7.2, 7.05

4. 0.54, 0.5469, 0.5462, 0.559

Evaluate each equation when $c = 0.5$ and $d = 30$.

5. $9 + c + d$

6. $10d \div c$

7. $d \div c \bullet 300$

Multiply.

8. $(6.2)(9.4)$

9. $-25(14)$

10. $-16(-11)$

Divide.

11. $30{,}139 \div 93$

12. $8.93 \div 4.7$

13. $-80 \div 5$

Write in scientific notation.

14. 35,500,000

15. 248,000,000

16. 8,050,000

Simplify.

17. $12 - 3 \bullet 2 + 2^3$

18. $10 \bullet 3 + (48 \div 6)^2 \bullet 0.4$

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Write and solve an equation for each problem.

19. Juan buys 4 DVDs at $15 each. How much does Juan pay in all?

_____

20. A ribbon is 165 cm long. It is cut into 15 equal pieces. How long is each piece?

_____

Find the prime factorization in exponential form.

21. 36

_____

22. 189

_____

23. 60

_____

Find the greatest common factor.

24. 80 and 100

_____

25. 48 and 84

_____

26. 14, 49, and 105

_____

Write in order from least to greatest.

27. $-2\frac{3}{4}, 4.5, -1\frac{1}{3}$

_____

28. $\frac{3}{2}, -3\frac{1}{2}, 4$

_____

29. $-\frac{3}{5}, -1.2, -6\frac{1}{2}$

_____

Find the value of the variable. Use the properties of addition.

30. $z + \frac{5}{7} = \frac{5}{7} + \frac{1}{7}$

_____

31. $\frac{3}{16} + \left(\frac{5}{16} + 0\right) = \frac{3}{16} + n$

_____

Add or subtract.

32. $\frac{1}{12} + \frac{2}{3} + \frac{1}{4}$

_____

33. $10\frac{1}{4} - 5\frac{2}{3}$

_____

34. $8\frac{1}{6} - 3\frac{3}{4} + 2\frac{1}{2}$

_____

Multiply or divide.

35. $\frac{7}{9} \bullet 27 \bullet 4$

_____

36. $1\frac{1}{3} \div 2\frac{2}{5}$

_____

37. $3\frac{1}{4} \div 1\frac{1}{2}$

_____