N3CS19

Practice Set 34

Instructions: Answer each question on loose leaf, quad-ruled (graph paper), headed properly and written in lead-graphite. Remember to fold paper along the center, work exercises in order top to bottom, left column then right column. Staple multiple pages

Identify the property represented by the statement.

- 1. $20 \cdot (5 \cdot 17) = (20 \cdot 5) \cdot 17$ 2. $(12a)\frac{1}{6} = (a \cdot 12)\frac{1}{6}$ 3. 7x + 4x + 1 = 1 + 7x + 4x4. 8 + (5 + k) = (8 + 5) + k5. -6(x-7+2y) = -6x+42-12y6. **#PushTheEnvelope:** -18x - 30y + 12 = -6(3x + 5y - 2)7. If $16 = 4^2$, $4^2 = 16$ 8. -13 + 0 = -139. $-17 \cdot 1 = -17$ 10. x + 17 - 17 = 41 - 1711. Write as a rate: 360 seconds in 6 minutes 12. Write as a unit rate: 720 seconds in 12 minutes 13. Write as a unit rate: 128 ounces per 16 cups. 14. Write as a unit rate: 452 students per 22 teachers; if needed, round up to the nearest student. 15. Glencoe Vol 1., pg. 175 #2 16. Glencoe Vol 1. (GV1) pg. 175, #4 17. #PushTheEnvelope: Show mathematically using units only that Miles traveled equals the product of miles per hour and hours traveled. 18. $\frac{17}{30}$ = ; write as a decimal rounded to the nearest 100th. 19. $2 + \frac{5}{4} =$; write as an improper fraction and a decimal rounded to nearest 10th. 20. Write as a fraction, reduced: $0.5\overline{7}$ 21. Write as a fraction, reduced: $0.\overline{246}$ 22. Translate into a math statement: "4 less than three-fourths the sum of a number and 5 is 8 more than six times the number." 23. Solve: n - 7 = -1324. Solve: x + 8 = -1525. Write as exponents positive: $\frac{b^{-12}}{b^{-7}}$ 26. Write as exponents positive: $c^{-14} \bullet c^8$ 27. Solve: 6a = 19; keep solution reduced and improper.
 - 28. Solve: -7b = 30; write as a reduced mixed number.
 - 29. Solve: $-\frac{5}{8}c = -4$; write as a decimal rounded to the nearest 10th.
 - 30. Solve: 6n + 7 = -14; keep solution reduced and improper.
 - 31. Solve: 6 7x = 8; keep solution reduced and improper.
 - 32. Solve: 4 3(2 x) = -3; keep solution reduced and improper
 - 33. Solve: 5-2(4+3n) = 8-2n; keep solution reduced and improper.
 - 34. Solve: $x^2 = 17$
 - x =

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35. Solve:
$$x^3 = -100$$

36. $\frac{6 \cdot 10^5}{8 \cdot 10^{-2}}$ =; write in standard form and scientific notation.

37. Estimate the sum: $6 + \sqrt{60}$

38. Solve: $10n - \frac{1}{13}(26 - 13n) + 12 = -2$; keep solution reduced and improper

39. Solve: $7x - 5(3 - 2x) = 7x - \frac{1}{8}(32 - 48x) - 11$; keep solution reduced and improper

40. Find three consecutive integers such that the sum of twice the smallest and 3 times the largest is 126. PV = mRT

41. *hint: your solution has only letters in it!*

$$T =$$

42. $P = \frac{V}{W}(T - D)$ *hint: your solution has only letters in it!*

$$T =$$

- 43. Amanda and Jonathan own a business. They check their sales receipts 3 times a day. One day their afternoon sales were \$50 more than their morning sales, and the evening sales were three times the afternoon sales. If their total sales were \$1,000, what were their evening sales?
- 44. The diameter of a small pizza is 16 centimeters. This is 2 centimeters more than two fifths of the diameter of a large pizza. Determine the diameter of the large pizza.
- 45. Use the data in the red kettle bell in the photo describing the Moon's mass to determine the Earth's mass; write your solution in standard form and scientific notation.



