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Approximate: Solve each equation.

1) $\log_2 8 + \log_2 16 = ?$ 2) $\log_2 4 + \log_2 16 = ?$

13) Solve: Write each equation.

13) $\log_2 16 + \log_2 32 = ?$ 14) $\log_2 4 + \log_2 16 + \log_2 32 = ?$

15) $\log_2 16 + \log_2 32 = ?$

16) $\log_2 7 + \log_2 (6 - 4) = ?$

17) $\log_2 4 + \log_2 16 = ?$

18) $\log_2 16 + \log_2 4 = ?$

19) $\log_2 8 + \log_2 16 = ?$

20) $\log_2 16 + \log_2 4 = ?$

21) $\log_2 16 + \log_2 32 = ?$

22) $\log_2 16 + \log_2 4 = ?$

Exercises: Infinite Algebra 2
The Meaning Of Logarithms
 Identify each equation as exponential form.

1) $\log_2 8 = 3$ 2) $\log_2 16 = 4$

3) $\log_2 \frac{1}{16} = -4$ 4) $\log_2 32 = 5$

Identify each equation as logarithmic form.

5) $10^2 = 100$ 6) $10^3 = 1000$

7) $10^4 = \frac{1}{10000}$ 8) $10^5 = \frac{1}{100000}$

Identify each equation as exponential form.

9) $\log_2 \frac{16}{4} = 2$ 10) $\log_2 16 = 4$

11) $\log_2 16 = 4$ 12) $\log_2 16 = 4$

13) $\log_2 16 = 4$ 14) $\log_2 16 = 4$

Identify each equation as logarithmic form.

15) $10^2 = 100$ 16) $10^3 = 1000$

Solving Log & Exp. Equations Worksheet

2. $\log_2 (3x-2) = 2$ 4. $\log_2 (x^2+x+4) = 2$
 $3^2 = 3x-2$ $5^2 = x^2+x+4$
 $11 = 3x$ $0 = x^2+x+4$
 $x = \frac{11}{3}$ $x = \frac{-1 \pm \sqrt{1-16}}{2}$

6. $-2\log_2 x = \log_2 9$ 8. $3\log_2 x = -\log_2 27$
 $\log_2 x^2 = \log_2 9$ $\log_2 x^3 = \log_2 27$
 $x^2 = 9$ $x^3 = \frac{1}{27}$
 $x = 3$ $x = \frac{1}{3}$

10. $2\log_2 (x+1) - \log_2 (x-1) = 2$ 12. $\log_2 x + \log_2 (x-3) = 2$
 $\log_2 \left(\frac{(x+1)^2}{x-1}\right) = 2$ $\log_2 (x^2-3x) = 2$
 $4 = \frac{2\log_2(x+1)^2}{x-1}$ $x^2-3x-4 = 0$
 $8(x+1)^2 = 4(x-1)$ $(x-4)(x+1) = 0$
 $2(x+1)^2 = x-1$ $x = 4$ or $x = -1$

Properties of Exponents Kuta Software: Infinite Algebra 1

Simplify. Your answer should contain only positive exponents.

1. $2m^3 \cdot 2m^5$ 2. $m^2 \cdot 2m^3$ 3. $4e^3 \cdot 2e^4$ 4. $4e^3 \cdot 2e^4$ 5. $2k^3 \cdot 4k$

6. $2x^2y^3 \cdot 2x^2y^3$ 7. $2y^3 \cdot 3x$ 8. $4y^3 \cdot 4y^3$ 9. $4a^3b^2 \cdot 3a^2b^3$ 10. $x^2y^3 \cdot x^2y^3$

11. $(x^2)^3$ 12. $(2x^2)^4$ 13. $(4e^3)^2$ 14. $(4e^3)^2$ 15. $(3k^3)^4$

16. $(4xy)^3$ 17. $(2b^2)^4$ 18. $(x^2y^3)^2$ 19. $(2x^2y^3)^2$ 20. $(3m)^2$

21. $\frac{x^3}{2y^2}$ 22. $\frac{x^2}{4z^3}$ 23. $\frac{3a^4}{5b^2}$ 24. $\frac{m^2}{2n^3}$ 25. $\frac{3m^2}{m^3}$

26. $\frac{2x^2y^3z^4}{3x^2y^2z^2}$ 27. $\frac{4x^2y^3z^4}{4x}$ 28. $\frac{2b^2y^3k^4}{3jk}$ 29. $\frac{3m^2n^3p^4}{2m^2n^3p^4}$ 30. $\frac{3x^2y^3z^4}{x^2y^2z^2}$

31. $(x^2y^3)^2$ 32. $(x^2y^3) \cdot 2x^2$ 33. $(a^2)^3 \cdot 2a^4$ 34. $(2y^3)^2 \cdot 2^2$ 35. $\frac{2x^2y^3 \cdot 4x^2y^3 \cdot 3x}{3x^2y^3}$

36. $\frac{2y^3 \cdot 3xy^2}{3x^2y^2}$ 37. $\frac{x^2y^3 \cdot x^2}{4x^2}$ 38. $\frac{3x^2y^3}{2x^2 \cdot 4xy^2}$ 39. $\frac{x}{(2x)^2}$ 40. $\frac{2m^2}{(2m^2)^2}$

41. $\frac{(2m^2)^3}{m^3}$ 42. $\frac{2x^3}{(x^2)^2}$ 43. $(a^2b^3)^2$ 44. $x^2y^3 \cdot (2y^2)^2$ 45. $3a^2 \cdot (2ba^2)^2$

46. $(2x^2y^3)^2 \cdot 2xy^4$ 47. $\frac{2k^3l^2}{k^2}$ 48. $\frac{(x^2y^3)^2}{2x^2}$ 49. $\frac{(2x)^2}{x^2 \cdot x}$

50. $\frac{(2x^2y^3)^2}{x^2y^2z^4 \cdot x^2z^2}$ 51. $\frac{(2pq^2r^3)^2 \cdot 2m^3p^4}{2pq^2}$ 52. $\frac{(2h^2k^3 \cdot h^2j^3k^2)^2}{2h^2j^3k^2}$

Kuta Software - Infinite Pre-Algebra Name _____

Square Roots Date _____ Period _____

Find each square root.

1) $\sqrt{64}$ 2) $\sqrt{36}$

3) $\sqrt{49}$ 4) $\sqrt{0}$

5) $\sqrt{25}$ 6) $\sqrt{1}$

7) $\sqrt{9}$ 8) $\sqrt{4}$

Find each square root. Round to the nearest whole number.

9) $-\sqrt{200}$ 10) $\sqrt{144}$

11) $-\sqrt{80}$ 12) $-\sqrt{34}$

13) $-\sqrt{127}$ 14) $\sqrt{1}$

15) $-\sqrt{36}$ 16) $-\sqrt{148}$

Find each square root.

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