N3CS19

Practice Set 20

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





3. Solve the equation: 8.4 = 1.2n 4. Solve the equation: $w - \frac{2}{5} = 1\frac{3}{5}$

5. Estimate the product: $2\sqrt{13}$ 6. Break down the radical $\sqrt{32}$

7. Simplify the expression; write exponents as positive: $\frac{(2^2 x^3 y^{-4})^3}{(2^2 x^3 y^{-4})^3}$

8. Which of the following are rational? Select 3 that apply, and be prepared to justify!

A)
$$\sqrt{5}$$

B) $\frac{7}{3}$ C) $\sqrt{17}$ D) $\sqrt{64}$ E) $\frac{-72}{8}$

9. Solve the equation: $-\frac{v}{32} = 3.2$ 10. Solve the equation: $-5\frac{1}{6} = 2\frac{1}{3} + p$

11. Solve the equation: -7.2 = -1.8n 12. Solve the equation: $w - \frac{3}{8} = -2\frac{1}{4}$

13. Estimate the difference: $3\sqrt{23} - 8$

14. Break down the radical: $\sqrt{128}$

15. Simplify the expression; write exponents as positive: $\frac{\left(3^2 x^{-4} y^2\right)^3}{81 x^3 y^{-4}}$

16. Which of the following are greater than 7 but less than 14? Select all that apply; be prepared to justify!

A)
$$\sqrt{44}$$

D) $\sqrt{153}$



19. Solve the equation: $-1.6 = -\frac{5}{8}n$ 20. Solve the equation: $w - 2.75 = -4\frac{1}{4}$

21. Estimate the sum: $4\sqrt{19} + 5\sqrt{40}$ 22. Break down the radical: $\sqrt{162}$



23. Simplify the expression; write the exponents as positive: $\frac{\left(2^{-3}x^{-4}y^3\right)^{-3}}{2^8 r^9 v^{-5}}$

24. Which of the following irrational expressions is located between 6 and 8 on the number line? Select three that apply, and be prepared to justify!

A)
$$2\sqrt{15}$$

A) $2\sqrt{15}$ B) $\sqrt{7} + 4$ C) $8 - \sqrt{5}$ D) $\sqrt{23} + \sqrt{8}$

E) $\sqrt{80-3}$