Square Root Review

1. Simplify the perfect squares.

$\sqrt{49}$

2. $\sqrt{64}$

3. $\sqrt{4}$

4. Identify the number as rational or irrational.

3.125

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5. $\sqrt{62}$

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6. $\sqrt{13}$

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7. $\frac{2}{3}$

_____

8. $\sqrt{16}$

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9. Between which two whole numbers will the square root fall.

$\sqrt{33}$

_____

10. $\sqrt{3}$

_____

11. $\sqrt{79}$

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12. Estimate the value of $\sqrt{90}$ to the nearest **tenth**

13. Estimate the value of $\sqrt{37}$ to the nearest **tenth**

14. Solve for x. Round to the nearest **hundredth,** if necessary.

$x^2 = 36$

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15. $x^2 = 62$

_____

16. $x^2 = 81$

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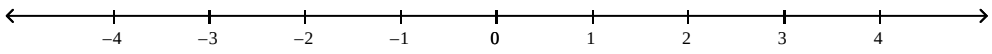
17. Compare the following numbers using < , > , or = .

$\sqrt{10}$ 5.356249856...

18. $\sqrt{56}$ $\sqrt{17}$

19. $\sqrt{80}$ 11.485281374...

20. Place the values $\sqrt{9}$, $-\sqrt{2}$, and $\sqrt{5}$ on the number line.



21. The formula $v = \sqrt{64h}$ can be used to find the velocity, *v*, in feet per second, of an object that has fallen *h* feet. Find the velocity of an object that has fallen 54 feet. Round to the nearest tenth.

22. Which set of numbers does NOT contain an irrational number?

A. $-\sqrt{7}, -\sqrt{178}, -8.65$

B. $-\sqrt{36}, -\sqrt{1.21}, 6.75$

C. $-0.11111..., -2\frac{3}{5}, \sqrt{8}$

D. $\frac{5}{8}, -5, \sqrt{13}$