

Math Worksheet for 8th Grade

Approximating irrational numbers

Questions

1. Between which two consecutive integers does $\sqrt{50}$ lie?
2. Between which two consecutive integers does $\sqrt{2}$ lie?
3. Approximate $\sqrt{18}$ to the nearest whole number.
4. Approximate $\sqrt{32}$ to one decimal place.
5. Approximate $\sqrt{75}$ to the nearest hundredth.
6. Approximate $\sqrt{99}$ to the nearest hundredth.
7. Which is larger: $\sqrt{8}$ or 2.82?
8. Which is larger: $\sqrt{20}$ or 4.47?
9. Approximate $\sqrt{63}$ to the nearest hundredth.
10. Between which two consecutive integers does $\sqrt{85}$ lie?
11. Approximate $\sqrt{12}$ to one decimal place.
12. Which is larger: $\sqrt{3}$ or 1.73?
13. Approximate $\sqrt{40}$ to the nearest hundredth.
14. Approximate $\sqrt{27}$ to one decimal place.
15. Without a calculator, which is larger: $\sqrt{48}$ or 7?
16. Use a calculator: approximate $\sqrt{68}$ to the nearest hundredth.
17. Which is larger: $\sqrt{50}$ or 7.07?
18. Approximate $\sqrt{11}$ to the nearest hundredth.
19. What is $\sqrt{\left(\frac{1}{4}\right)}$? Between which consecutive integers does it lie?
20. Approximate $\sqrt{2}$ to the nearest hundredth.
21. Order these from least to greatest: $\sqrt{2}$, 1.5, $\sqrt{3}$.
22. Which is larger: $\sqrt{99}$ or 9.95?
23. Approximate $\sqrt{5}$ to the nearest hundredth.
24. Approximate $\sqrt{123}$ to one decimal place.
25. Which is larger: $\sqrt{2} + \sqrt{3}$ or 3.14?
26. Approximate $\sqrt{80}$ to the nearest hundredth.
27. Which is larger: $\sqrt{2}$ or 1.41?
28. Approximate $\sqrt{21}$ to one decimal place.
29. Approximate $\sqrt{24}$ to the nearest hundredth.
30. Which is larger: $\sqrt{200}$ or 14.14?
31. Approximate $\sqrt{145}$ to the nearest hundredth.



Name:

Due Date:

Teacher:

Parent Sign:

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32. What is $\sqrt{0.36}$? Between which consecutive integers does it lie?
33. Approximate $\sqrt{2.25}$ to the nearest hundredth.
34. Use a calculator: which is larger, $\sqrt{7}$ or 2.64?
35. Approximate $\sqrt{30}$ to the nearest hundredth.
36. Order least to greatest: $\sqrt{8}$, 2.82, 3.
37. Approximate $\sqrt{99}$ to one decimal place.
38. Which is larger: $\sqrt{13}$ or 3.6?
39. Approximate $\sqrt{2000}$ to the nearest whole number.
40. Approximate $\sqrt{0.02}$ to the nearest hundredth.
41. Which is larger: $\sqrt{10}$ or 3.16?
42. Approximate $\sqrt{52}$ to the nearest hundredth.
43. Which is closer to $\sqrt{37}$: 6.08 or 6.09?
44. Approximate $\sqrt{29}$ to the nearest hundredth.
45. Which is larger: $\sqrt{18}$ or 4.24?
46. Approximate $\sqrt{0.5}$ to the nearest hundredth.
47. Using a calculator, compare $\sqrt{2} \cdot \sqrt{8}$ and 4. Which is larger, or are they equal?
48. Approximate $\sqrt{500}$ to the nearest whole number.
49. Order from greatest to least: $\sqrt{5}$, 2.24, $\sqrt{6}$.
50. Approximate $\sqrt{97}$ to the nearest hundredth.