Rounding & Estimating: Hard Practice Paper 1

Q1. Round 0.00847 to 2 significant figures.

A. 0.008 B. 0.0084 C. 0.0085 D. 0.009 E. 0.085

Q2. Round 4,732,500 to 3 significant figures.

A. 4,700,000 B. 4,730,000 C. 4,732,000 D. 4,733,000 E. 4,740,000

Q3. A number is rounded to the nearest 100 and gives 3,400. What is the SMALLEST possible value of the original number?

A. 3,300 B. 3,340 C. 3,349 D. 3,350 E. 3,351

Q4. Round 0.999 to 2 significant figures.

A. 0.9 B. 0.99 C. 0.999 D. 1.0 E. 1.1

Q5. Estimate 3,847 ÷ 19 by rounding each number to 1 significant figure.

A. 150 B. 175 C. 200 D. 202 E. 210

Q6. A number is rounded to 3 significant figures to give 6.40. Which of these CANNOT be the original number?

A. 6.395 B. 6.399 C. 6.400 D. 6.404 E. 6.405

Q7. Round 0.050702 to 3 significant figures.

A. 0.005 B. 0.0507 C. 0.050702 D. 0.0508 E. 0.051

Q8. A town has a population of 23,648. Round this to 2 significant figures.

A. 20,000 B. 23,000 C. 23,600 D. 24,000 E. 25,000

Q9. Estimate the value of √63 by finding the nearest perfect square.

A. 7 B. 7.5 C. 7.9 D. 8 E. 9

Q10. Round 1.0049 to 3 decimal places.

A. 1.004 B. 1.0049 C. 1.005 D. 1.01 E. 1.1

Q11. A number is rounded to 2 significant figures and gives 5,800. What is the LARGEST whole number that could give this result?

A. 5,804 B. 5,839 C. 5,849 D. 5,850 E. 5,899

Q12. The distance between two cities is 247.3 km. Round this to 2 significant figures.

A. 200 B. 240 C. 247 D. 250 E. 300

Q13. Estimate 897 × 302 by rounding each number to 1 significant figure.

A. 240,000 B. 270,000 C. 271,000 D. 280,000 E. 300,000

Q14. Round 6,381 to 3 significant figures.

A. 6,300 B. 6,380 C. 6,381 D. 6,390 E. 6,400

Q15. Estimate 19.7 + 31.2 + 48.6 by rounding each number to the nearest 10.

A. 90 B. 95 C. 99 D. 100 E. 110