Rounding & Estimating: Hard Practice Paper 5

Q1. Round 2,995,000 to 3 significant figures.

A. 2,990,000 B. 2,995,000 C. 3,000,000 D. 3,000,500 E. 3,100,000

Q2. Round 8.4850 to 3 significant figures.

A. 8.4 B. 8.48 C. 8.485 D. 8.49 E. 8.5

Q3. Estimate 5,847 × 0.312 by rounding each number to 1 significant figure.

A. 1,200 B. 1,500 C. 1,800 D. 1,824 E. 2,000

Q4. A number is rounded to 3 significant figures and gives 12,400. What is the SMALLEST value the number could be?

A. 12,300 B. 12,350 C. 12,351 D. 12,395 E. 12,400

Q5. Round 0.50055 to 4 significant figures.

A. 0.5005 B. 0.50055 C. 0.5006 D. 0.501 E. 0.51

Q6. A swimming pool holds 1,473,200 litres. Round this to 2 significant figures.

A. 1,400,000 B. 1,470,000 C. 1,473,000 D. 1,500,000 E. 2,000,000

Q7. Estimate $4.71^2 + 3.82^2$ by rounding each number to the nearest whole number.

A. 35 B. 37 C. 38 D. 41 E. 50

Q8. A number rounded to 2 significant figures gives 0.0093. Which of these CANNOT be the original number?

A. 0.00925 B. 0.00929 C. 0.00931 D. 0.00934 E. 0.00935

Q9. Estimate 3.97 × 4.98 × 2.03 by rounding each number to the nearest whole number.

A. 35 B. 38 C. 40 D. 40.17 E. 45

Q10. Round 70,050 to 3 significant figures.

A. 70,000 B. 70,050 C. 70,100 D. 70,500 E. 71,000

Q11. A number is rounded to the nearest whole number and gives 15. What is the SMALLEST value the number could be?

A. 14 B. 14.4 C. 14.5 D. 15 E. 15.4

Q12. Estimate 1,980 ÷ 0.0397 by rounding each number to 1 significant figure.

A. 5,000 B. 40,000 C. 49,874 D. 50,000 E. 500,000

Q13. Round 0.14150 to 3 significant figures.

A. 0.14 B. 0.141 C. 0.1415 D. 0.142 E. 0.15

Q14. Estimate the area of a circle with radius 4.9 cm by rounding the radius to the nearest whole number and using $\pi \approx 3$.

A. 69 cm^2 B. 72 cm^2 C. 75 cm^2 D. 78 cm^2 E. 82 cm^2

Q15. Round 19,995 to 3 significant figures.

A. 19,900 B. 19,990 C. 19,995 D. 20,000 E. 20,100