

Rounding & Estimating: Medium Practice Paper 3

Q1. A theatre has 38 rows of seats with 22 seats in each row. Estimate the total number of seats by rounding each number to the nearest 10.

- A. 700 B. 800 C. 836 D. 900 E. 1,000

Q2. A car travels at 68 mph for 4 hours. Estimate the total distance by rounding 68 to the nearest 10.

- A. 240 B. 272 C. 280 D. 300 E. 320

Q3. Estimate 297×4 by rounding 297 to the nearest 100.

- A. 1,000 B. 1,100 C. 1,188 D. 1,200 E. 1,300

Q4. Estimate 4.8×9.2 by rounding each number to the nearest whole number.

- A. 40 B. 44.16 C. 45 D. 48 E. 50

Q5. A shop orders 312 boxes of pens, each containing 48 pens. Estimate the total number of pens by rounding each to 1 significant figure.

- A. 12,000 B. 14,976 C. 15,000 D. 16,000 E. 20,000

Q6. Estimate $5,280 \div 48$ by rounding each number to 1 significant figure.

- A. 90 B. 100 C. 110 D. 115 E. 130

Q7. A train travels 289 km in 2.8 hours. Estimate its average speed (km/h) by rounding each value to a convenient number.

- A. 80 B. 90 C. 100 D. 103 E. 110

Q8. Estimate 7.95×8.1 by rounding each number to the nearest whole number.

- A. 56 B. 63 C. 64 D. 64.395 E. 72

Q9. There are 52 weeks in a year. Estimate how many weeks are in 19 years by rounding 19 to the nearest 10.

- A. 988 B. 1,000 C. 1,040 D. 1,050 E. 1,100

Q10. Estimate $\sqrt{48}$ by finding the nearest perfect square.

- A. 6 B. 6.9 C. 7 D. 7.1 E. 8

Q11. A tank holds 1,980 litres. A pipe pumps in 48 litres per minute. Estimate how many minutes it takes to fill the tank by rounding each number to 1 significant figure.

- A. 35 B. 38 C. 40 D. 41.25 E. 45

Q12. Estimate 0.49×20 by rounding 0.49 to 1 significant figure.

- A. 8 B. 9.8 C. 10 D. 11 E. 20

Q13. A circle has a radius of 5 cm. Estimate its area using $\pi \approx 3.14$, by rounding 3.14 to 1 significant figure. (Area = $\pi \times r^2$)

- A. 70 B. 75 C. 78.5 D. 80 E. 85

Q14. A number rounds to 400 when rounded to 1 significant figure. Which of these is the original number?

- A. 349 B. 352 C. 450 D. 451 E. 500

Q15. A pupil calculates $48 \times 53 = 2,544$. They check by rounding each to the nearest 10. Which statement is correct?

- A. Estimate is 2,500 – calculation is likely correct
B. Estimate is 2,000 – calculation seems too large
C. Estimate is 3,000 – calculation seems too small
D. Estimate is 2,600 – calculation is likely correct
E. Estimate is 2,200 – calculation seems too large