



GCSE Maths

Numbers

Estimating and Rounding

Name:

Date:

Materials

You can use a calculator for these questions



Tips

Show how you worked out the answer if you can.

Simple Questions

1. Round **746** to the nearest **10**.

Answer _____ [1 mark]

2. Round **3,827** to the nearest **100**.

Answer _____ [1 mark]

3. Round **12,589** to the nearest **1,000**.

Answer _____ [1 mark]

4. Round **4.376** to **1 decimal place**.

Answer _____ [1 mark]

5. Round **5.7398** to **2 decimal places**.

Answer _____ [1 mark]



Medium Questions

6. Estimate the value of $397 + 612$ by rounding each number to the nearest **100** first.

Answer _____ [2 mark]

7. Estimate the value of 19×42 by rounding each number to the nearest **10** first.

Answer _____ [2 mark]

8. Round **0.008479** to **2 significant figures**.

Answer _____ [2 mark]

9. A student rounds **6,849** to **6,900** when rounding to the nearest 100. Explain why this is incorrect and give the correct answer.

Answer _____ [2 mark]

10. Estimate the value of $(4.92 \times 203) \div 48$ by rounding each number appropriately.

Answer _____ [2 mark]



Difficult Questions

11. A length is given as **3.6 m**, rounded to **1 decimal place**.
What are the **upper and lower bounds** for this measurement?

Answer _____ [3 mark]

12. A number is rounded to **2 significant figures** as **4.6**.
Write the error interval for this number.

Answer _____ [3 mark]

13. A rectangle has a length of **5.4 cm** (rounded to **1 decimal place**) and a width of **3.2 cm** (rounded to **1 decimal place**).
Find the **upper bound** for the area of the rectangle.

Answer _____ [3 mark]

14. Estimate the value of **$\sqrt{50}$** to **1 decimal place** using known square numbers.

Answer _____ [3 mark]

15. A journey takes **85 minutes**, rounded to the nearest **5 minutes**, and the distance is **120 km**, rounded to the nearest **10 km**.
Find the **upper bound** for the average speed in km/min.

Answer _____ [3 mark]

