Test - Place value to 10 000 000 and rounding

Year: Year 6 · Duration: 40 minutes · /20

Name:	Date:	**Mark:** /20

Question	1	2	3	4	5	Total
marks	3	4	4	4	5	**20**
Mark						

Show your working.

Question 1 (3 marks)

Question 1 – Place value

This is a number: 5 308 462.

a. Write the number in words.
b. What is the value of the digit 3?
c. Write the number that is 10 000 more than 5 308 462.

Question 2 (4 marks)

Question 2 – Rounding the population

The population of a town is 2 487 316.

a. Round it to the nearest 100 000.
b. Round it to the nearest 10 000.
c. Round it to the nearest million.
d. The town council says it is "about 2.5 million". Is this reasonable? Use your rounding answers to explain.

Question 3 (4 marks)

Question 3 – Temperatures

These are the temperatures (in °C) in five places on a winter morning: Oslo −8, Madrid 6, Moscow −15, Rome 2, Berlin −2.

a. Write the temperatures in order, coldest first.
b. Find the difference between the temperature in Madrid and in Moscow.
c. The temperature in Berlin falls by 5 degrees. What is the new temperature?
d. Which place is 10 degrees warmer than Oslo? Show your working.

Question 4 (4 marks)

Question 4 – The football crowd

The crowd at a match was 47 000, rounded to the nearest 1 000.

a. What is the smallest crowd it could have been?
b. What is the largest crowd it could have been?
c. The ground holds 47 500 fans. Explain why the ground was not full.

Question 5 (5 marks)

Question 5 – Cinema tickets

A group of cinemas sold these numbers of tickets in four months.

Month	Tickets sold
June	1 845 200
July	2 310 750
August	2 679 480
September	1 134 570

a. Which month had the most sales? Which had the fewest?
b. Round each number to the nearest 100 000.
c. Use your rounded numbers to estimate the total tickets sold.
d. Find the exact total. By how much does it differ from your estimate?