Year 9 Standard Form and Bounds – Developing

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Year 9 · Maths · Standard Form, Powers of Ten and Bounds · Level 2 Developing · 10 questions

Name _____ **Date** _____

A. Use standard form and bounds

1. Work out $(1.2 \times 10^{8}) + (3 \times 10^{7})$. Give your answer in standard form.

Answer _____

2. Work out $(4.2 \times 10^{-7}) + (5 \times 10^{-8})$. Give your answer in standard form.

Answer _____

3. Write these numbers in order of size, smallest first: 4.8×10^{-1}; 0.063; 5.2×10^{-3}; 2.8×10^{-1}

Answer _____

4. One grain of sand has a mass of about 3×10^{-6} g. What is the mass of 2×10^{4} grains? Give your answer in standard form.

Answer _____

5. A raindrop holds about 4×10^{-2} ml of water. About how many raindrops make 6 litres? Give your answer in standard form.

Answer _____

6. An atom has a diameter of about 2×10^{-10} m. How many atoms, side by side, make a line 1 mm long? Give your answer in standard form.

Answer _____

7. Each bag of flour weighs 14 kg, correct to the nearest kg. Work out the lower bound of the total mass of 3 bags.

Answer _____

8. A crowd is 8600 people, correct to the nearest 100. What is the smallest possible number of people in the crowd?

Answer _____

9. Write 0.0000022 in standard form.

Answer _____

10. Hana says $(6 \times 10^5) + (3 \times 10^5) = 9 \times 10^{10}$. Spot the mistake and give the correct answer.

Answer _____