Year 8 Prime Factors and Rounding – Developing

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Year 8 · Maths · Prime Factors, Place Value and Rounding · Level 2 Developing · 10 questions

Name _____ **Date** _____

A. Use prime factors and rounding

1. A = $2^2 \times 3 \times 5$ and B = 2×5^3. Use the prime factors to find the HCF and the LCM of A and B.

Answer _____

2. A = $2^2 \times 7^2$ and B = $2^2 \times 3^3$. Use the prime factors to find the HCF and the LCM of A and B.

Answer _____

3. Estimate the value of $(88.5 \times 0.08) \div 4.4$ by rounding each number to 1 significant figure.

Answer _____

4. Estimate the value of $(86.5 \times 0.063) \div 4.1$ by rounding each number to 1 significant figure.

Answer _____

5. Three lighthouses flash every 6, 8 and 10 seconds. They flash together at midnight. After how many seconds do they next flash together?

Answer _____

6. Buses on three routes leave a station every 15, 20 and 30 minutes. They all leave together at 8 a.m. After how many minutes do they next leave together?

Answer _____

7. Write 630 as a product of prime factors. Use index notation.

Answer _____

8. Round 0.00054519 to 1 significant figure. Answer _____

9. 231 ÷ 0.01 = ? Answer _____

10. A = 2×3^3 and B = 3×5^3. Use the prime factors to find the HCF and the LCM of A and B.

Answer _____