

Student Name:

Date:

Due Date:

Grade:

Start Time:

End Time:

Comments:

1. Find the prime factorization of 120.
2. Find the prime factorization of 180.

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3. Write the prime factorization of 360 using exponents.
4. Write the prime factorization of 504 using exponents.

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5. Find the total number of distinct factors that the number 72 has.
6. What is the smallest whole number that 24 can be multiplied by to make it a perfect square?

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7. Find the Greatest Common Factor (GCF) of 96 and 144.

8. Find the Greatest Common Factor (GCF) of 24, 60, and 84.

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9. Find the Least Common Multiple (LCM) of 16 and 28.

10. Find the Least Common Multiple (LCM) of 8, 12, and 20.

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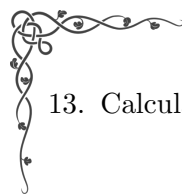
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11. Find the GCF of $2^3 \times 3^2 \times 5$ and $2^2 \times 3^3$.

12. Find the LCM of $2^2 \times 3 \times 5$ and $2 \times 3^2 \times 7$.

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13. Calculate: $2^5 - 3^3 + 5^2$.

14. Calculate: $(4^3 - 4) \div 15$.

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15. Calculate: $3 \times 2^4 \div (10 - 4)$.

16. Calculate: $\frac{5^4}{5^2} - 3^2$.

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17. Calculate: $(12 - 9)^3 \times 2 - 4^2$.

18. Calculate: $6^3 \div 24 + 5^2$.



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20. Find the Least Common Multiple (LCM) of the first four prime numbers.

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22. Determine if 143 is a prime or composite number. If it is composite, list its prime factors.

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24. Divide the LCM of 12 and 15 by the GCF of 18 and 30.