

Student Name:

Date:

Due Date:

Grade:

Start Time:

End Time:

Comments:

1.

What is the difference between a prime number and a composite number?
2.

Classify the numbers 11, 15, and 21 as either prime or composite.

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Struggled

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Easy

3.

What does it mean to find the "prime factorization" of a number?

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Struggled

✓

Easy

4.

Use a factor tree to find the prime factorization of 24.

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Struggled

✓

Easy

5.

Write the prime factorization of 36 using exponents.

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✓

Easy

6.

Write the prime factorization of 60 using exponents.

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Struggled

✓

Easy

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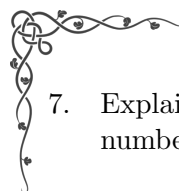
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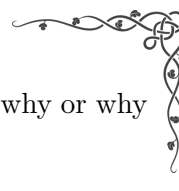
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7.

Explain the divisibility rule used to quickly check if a number can be divided evenly by 3.
8.

Is the number 258 divisible by 6? Explain why or why not.
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9.
- Find the Greatest Common Factor (GCF) of 24, 36, and 48.

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10.
- Find the Greatest Common Factor (GCF) of 45 and 75.

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11.
- Find the Least Common Multiple (LCM) of 3, 4, and 6.

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12.
- Find the Least Common Multiple (LCM) of 12 and 18.

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13. A teacher has 24 juice boxes and 32 snacks. What is the greatest number of identical treat bags she can make with no items left over?

14. Using your answer from question 13, how many juice boxes and how many snacks will be in each treat bag?

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15. Blue lights flash every 6 seconds, and red lights flash every 8 seconds. If they flash together now, in how many seconds will they flash together again?

16. Hot dog buns come in packs of 8, and hot dog patties come in packs of 10. What is the least number of packs of buns and patties you need to buy to have a perfect match?

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17. If two different numbers are both prime numbers (like 5 and 7), what is always their Greatest Common Factor (GCF)?

18. If the GCF of two numbers is 1, explain how you can easily find their Least Common Multiple (LCM).



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