

Independent Practice

4.3

NAME _____

Module 4 Fractions, Decimals, Percents, and Factors
Lesson 3 Factors and Prime Factorization

Find the factors of each number.

1. 18

2. 70

Determine whether each number is prime or composite.

3. 41

4. 49

5. 33

6. 17

Find the prime factorization of each number.

7. 216

8. 45

9. 110

10. 200

Find the common factors of each set of numbers.

11. 18 and 81

12. 100 and 250

13. 8 and 28

14. 32 and 80

Find the Greatest Common Factor (GCF) of each set of numbers.

15. 24 and 64

16. 52 and 13

17. 96 and 120

18. 8, 40, 48

Use prime factorization to find the Greatest Common Factor (GCF) of each set of numbers.

19. 99 and 220

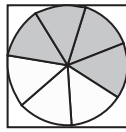
20. 36, 90, 180

Journal

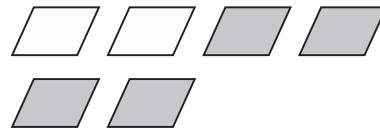
1. Explain why two is the only even prime number.
2. Explain how to find the prime factorization of 24 using a factor tree.
3. Explain how to find the prime factorization of 18 using a factor ladder.
4. Describe the steps needed to find the Greatest Common Factor of 24 and 18 using a Venn diagram.

Cumulative Review

1. Name the fraction shown by the shaded region.



2. What is the ratio of shaded quadrilaterals to the entire group of shapes? Express the ratio in all three ways.

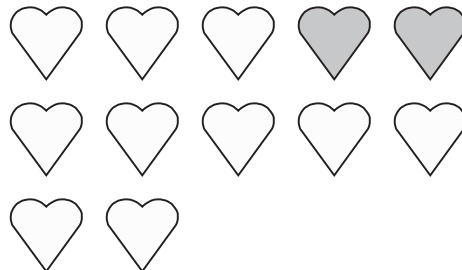


3. What is the ratio of small z's to large Z's? Express the ratio in all three ways.

Z Z Z Z z z z z z



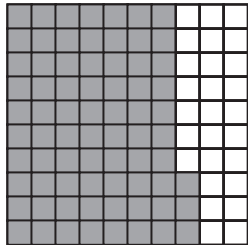
4. What is the ratio of shaded hearts to the entire group of hearts? Express the ratio in all three ways.



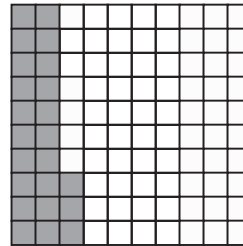
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Module 4 **Fractions, Decimals, Percents, and Factors**
Lesson 3 **Factors and Prime Factorization**

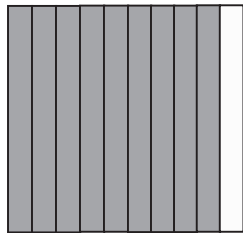
5. What fraction of the model is shaded?



6. Write the fraction of the model that is shaded, the ratio of shaded squares to total squares, and the percent that is shaded.



7. Name the decimal shown by the shaded region. Write it in both decimal and word form.



8. Find the decimal equivalent of the fraction $\frac{12}{100}$.

9. Find the percent equivalent of the fraction.

$$\frac{24}{100}$$

10. Complete the table.

| Fraction | Decimal | Percent |
|----------|---------|---------|
| | 0.92 | |

Additional Work Area

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