

Grade 7 Complex Fractions and Unit Rates

Fractions • Grade 7 • Drill • Set C • CCSS 7.RP.1

Name: _____

Date: _____

Simplify each complex fraction. For the word problems, divide to find the unit rate.

1. $(1/2) \div (1/4) =$

2. $(3/4) \div (1/8) =$

3. $(1/3) \div (1/6) =$

4. $(1/2) \div (3/4) =$

5. $(5/6) \div (1/3) =$

6. $(5/8) \div (1/2) =$

7. $(1/10) \div (1/5) =$

8. $(2/5) \div (4/15) =$

9. A pipe leaks $1/3$ liter in $1/3$ hour. What is the unit rate in liters per hour?

10. A machine finishes $1/2$ of a part in $1/3$ hour. What is the unit rate in parts per hour?

11. A recipe uses $1/2$ cup of flour for $1/3$ of a batch. What is the unit rate in cups per batch?

12. $1/2$ of a can of paint covers $1/2$ of a wall. What is the unit rate in walls per can?

13. A hiker walks $3/5$ mile in $2/5$ hour. What is the unit rate in miles per hour?

14. A machine finishes $2/5$ of a part in $1/3$ hour. What is the unit rate in parts per hour?

15. A recipe uses $1/3$ cup of flour for $1/4$ of a batch. What is the unit rate in cups per batch?

16. $2/3$ of a can of paint covers $1/2$ of a wall. What is the unit rate in walls per can?

Answer Key

Grade 7 Complex Fractions and Unit Rates — Set C

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|-------------------|-----------------------------------|-----------------------------------|
| 1. 2 | 7. $1\frac{1}{2}$ | 13. $1\frac{1}{2}$ miles per hour |
| 2. 6 | 8. $1\frac{1}{2}$ | 14. $1\frac{1}{5}$ parts per hour |
| 3. 2 | 9. 1 liter per hour | 15. $1\frac{1}{3}$ cups per batch |
| 4. $\frac{2}{3}$ | 10. $1\frac{1}{2}$ parts per hour | 16. $1\frac{1}{3}$ walls per can |
| 5. $2\frac{1}{2}$ | 11. $1\frac{1}{2}$ cups per batch | |
| 6. $1\frac{1}{4}$ | 12. 1 wall per can | |