

Grade 7 Complex Fractions and Unit Rates

Fractions • Grade 7 • Drill • Set B • 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. $(1/4) \div (1/8) =$

3. $(2/3) \div (1/6) =$

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

5. $(1/6) \div (2/3) =$

6. $(3/8) \div (1/2) =$

7. $(7/10) \div (2/5) =$

8. $(3/5) \div (4/15) =$

9. A machine finishes $7/8$ of a part in $3/4$ hour. What is the unit rate in parts per hour?

10. A hiker walks $2 \frac{1}{2}$ miles in $1/5$ hour. What is the unit rate in miles 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 $3/4$ of a wall. What is the unit rate in walls per can?

13. A machine finishes $1/4$ of a part in $1/3$ hour. What is the unit rate in parts per hour?

14. A cyclist rides $4/5$ mile in $1/2$ hour. What is the unit rate in miles per hour?

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

16. $1/2$ 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 B

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