

Unit 3 Review

Perform the indicated operation. Express your answer in simplest form.

1. $2(-8) =$

2. $-\frac{3}{4} \cdot 5 =$

3. $\frac{1}{8} \div \frac{3}{5} =$

4. $5\left(2\frac{2}{3}\right) =$

5. $-10 \div \frac{1}{2} =$

6. $-2(-5.3) =$

7. $-15 \div 3 =$

8. $2\frac{2}{3} \div \frac{1}{4} =$

9. $\frac{\frac{3}{4}}{\frac{2}{5}}$

Write an expression to represent the following, then solve it!

10. Marcus has 15 Pokemon cards. His little brother has $\frac{2}{5}$ as many Pokemon cards. How many Pokemon cards does Marcus's little brother have?

11. Keri has $4\frac{3}{5}$ feet of licorice rope. She breaks it into 3 equal parts to share. How long is each part?

Find the rate. LABEL YOUR ANSWER!

12. Taylor eats $\frac{3}{4}$ of a pie $\frac{2}{3}$ of an hour. What is the average amount of pie eaten per hour?

Find k (constant of proportionality). Fill in the table and complete the sentence.

13. Marquise builds 6 model airplanes in $\frac{4}{5}$ of an hour. Find the rate at which Marquise builds in airplanes per hour.

Time (hours)	Airplanes (#)
$\frac{4}{5}$	
$\frac{1}{3}$	

In $\frac{1}{3}$ hours, Marquise builds _____ airplanes.

MULTIPLE CHOICE

14. Over a period of 3 hours, the outside temperature changed an average of -2.25° Fahrenheit per hour. Which statement correctly describes the change in the temperature from the beginning to the end of the 3 hour period?
- (A) The temperature decreased by 0.75 degrees Fahrenheit.
 - (B) The temperature increased by 0.75 degrees Fahrenheit.
 - (C) The temperature decreased by 6.75 degrees Fahrenheit.
 - (D) The temperature increased by 6.75 degrees Fahrenheit.

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15. Which situation can be modeled using this expression?

$$4\frac{1}{2} \div \frac{1}{4}$$

- (A) Kim has $4\frac{1}{2}$ cups of flour. She uses $\frac{1}{4}$ cup of flour for a recipe. How many cups of flour does Kim have remaining?
- (B) Alex has $4\frac{1}{2}$ pages to read for homework. So far, he has finished $\frac{1}{4}$ of his homework. How many pages has Alex read so far?
- (C) Ben has a $4\frac{1}{2}$ foot long sandwich. He cuts the sandwich into $\frac{1}{4}$ foot long pieces. How many pieces of sandwich does Ben have?
- (D) Stacy has $4\frac{1}{2}$ hours to get ready for a concert. She spends $\frac{1}{4}$ hour showering. How many hours does Stacy have remaining to get ready?