

Name _____

1. Estimate the sum of $\frac{9}{10}$ and $\frac{5}{6}$. Write an equation.

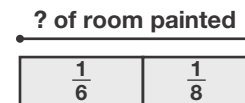
2. Select all of the expressions that are equal to $\frac{3}{4}$. Explain.

- $\frac{7}{20} + \frac{2}{5}$; I found a common denominator and then added the numerators to get $\frac{3}{4}$.
- $\frac{19}{20} - \frac{1}{5}$; I found a common denominator and then subtracted the numerators to get $\frac{3}{4}$.
- $\frac{5}{17} - \frac{2}{13}$; I subtracted the numerators and denominators to get $\frac{3}{4}$.
- $2 + 1\frac{1}{3}$; I found a common denominator and then added the numerators to get $\frac{3}{4}$.
- $3\frac{4}{7} - \frac{9}{10}$; I found a common denominator and then subtracted the numerators to get $\frac{3}{4}$.

3. Elizabeth has two ribbons. One is $\frac{1}{7}$ foot long, and the other is $\frac{2}{5}$ foot long. Write $\frac{1}{7}$ and $\frac{2}{5}$ using a common denominator. What fraction represents the total length of ribbon Elizabeth has?

4. Tristan had $\frac{1}{3}$ pound of grapes at home. He went to the store and bought $\frac{3}{8}$ pound of grapes. What fraction of a pound of grapes does Tristan have now? Explain.

5. The bar diagram shows the fractional parts of a room that Andrea and Yeo painted.



- A. Rename each fraction using a common denominator.

- B. Use the renamed fractions to write and solve an equation to find the total amount of the room Andrea and Yeo painted.

6. Choose the correct sum for each expression.

	$\frac{7}{8}$	$1\frac{1}{16}$	$\frac{5}{8}$	$\frac{7}{16}$
$\frac{1}{8} + \frac{3}{4}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{1}{8} + \frac{1}{2}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{1}{8} + \frac{5}{16}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{1}{8} + \frac{15}{16}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. For a trip to the beach, Kelly drove for $\frac{5}{6}$ hour and Joshua drove for $\frac{2}{5}$ hour.

- A. Estimate how much longer Kelly drove than Joshua. Explain how you found your estimate.

- B. How much longer did Kelly drive than Joshua? Find the exact amount.

8. Cassidy had $8\frac{7}{10}$ inches of string. She used $5\frac{3}{8}$ inches of string. Estimate the amount of string Cassidy has left.

- (A) 2 inches (C) 3 inches
(B) 4 inches (D) 5 inches

9. Explain why you must rename $10\frac{3}{5}$ in order to find $10\frac{3}{5} - \frac{6}{7}$.

10. Laquita had $5\frac{7}{9}$ yards of fabric. She used $3\frac{2}{3}$ to make a blouse. Write and solve an expression to find how much fabric is left.

11. Valentino needs $4\frac{1}{2}$ pounds of chicken for a recipe. He already has $2\frac{3}{4}$ pounds of chicken. How many more pounds of chicken does Valentino need? Identify which equation represents the problem and solve.

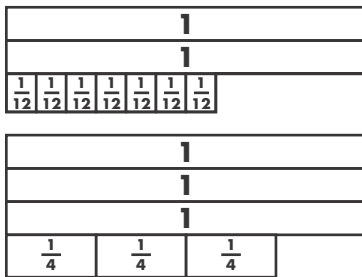
- (A) $\frac{3}{4}$ pound; $4\frac{1}{2} - 2\frac{3}{4} = \frac{3}{4}$
(B) $1\frac{1}{2}$ pounds; $4\frac{1}{2} - 2\frac{3}{4} = 1\frac{1}{2}$
(C) $1\frac{3}{4}$ pounds; $4\frac{1}{2} - 2\frac{3}{4} = 1\frac{3}{4}$
(D) $2\frac{3}{4}$ pounds; $4\frac{1}{2} + 2\frac{3}{4} = 2\frac{3}{4}$

12. For an industrial arts class, Talia used $\frac{1}{3}$ of a piece of wood for the base of her project, $\frac{1}{4}$ of the piece of wood for a vertical support, and the rest for a horizontal support. What fraction of the piece of wood did Talia use as a horizontal support?

13. For an Earth Day project, Rushdi collected $7\frac{5}{8}$ pounds of recyclables, Lydia collected $9\frac{2}{3}$ pounds of recyclables, and Latrelle collected $10\frac{3}{4}$ pounds of recyclables. How many pounds of recyclables did the three friends collect in all?

- (A) $26\frac{3}{16}$ pounds (C) $28\frac{3}{16}$ pounds
 (B) $26\frac{1}{24}$ pounds (D) $28\frac{1}{24}$ pounds

14. The fraction strips below can be used to find the sum of two mixed numbers. What is the sum? What is the difference? Show your work.



15. Estimate the sum of $2\frac{7}{9}$ and $2\frac{3}{4}$. Explain how you found your estimate.

16. Find $3\frac{3}{4} - \frac{7}{8}$.

- A. Explain why you must rename $3\frac{3}{4}$ in order to do the subtraction.

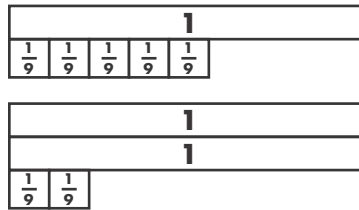
- B. Explain how to rename $3\frac{3}{4}$ in order to do the subtraction.

17. Hugo made a triangle pendant with all three sides the same length, $1\frac{1}{3}$ in. What is the perimeter of the triangle?

- (A) 4 in.
- (B) 5 in.
- (C) $5\frac{1}{3}$ in.
- (D) $4\frac{1}{3}$ in.

18. A carpenter needs a board that is $9\frac{2}{3}$ feet long. He has a board that is $12\frac{3}{4}$ feet long. How much of the board must the carpenter cut off? If the carpenter wants another piece of wood that is $2\frac{3}{4}$ feet long, how much of the board must the carpenter cut off of the board that is remaining?

19. Fraction strips for two mixed numbers are shown below. What is the sum of the numbers? What is the difference? Show your work.



20. Noriko says that the expression $(5\frac{4}{8} + 7\frac{3}{4}) - 4\frac{2}{4}$ is equal to a whole number. Do you agree? Explain.