NAME:_____

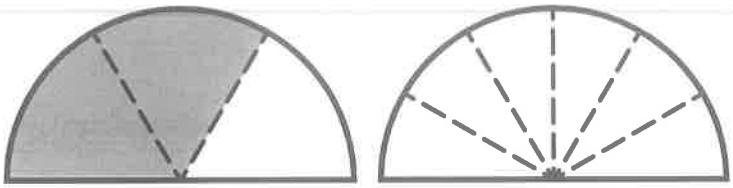
4th GRADE FRACTION PACKET

- [ ] Equivalent Fractions
- [ ] Equivalent Fractions II
- [ ] Equivalent Fractions III
- [ ] Shading Fractions/ Equivalent Fractions
- [ ] Number Lines
- [ ] Fractions Number Line
- [ ] Mixed Fractions Number Line
- [ ] Comparing Fractions
- [ ] Comparing Fractions II
- [ ] Comparing Fractions III
- [ ] Mixed Number / Improper Fractions
- [ ] Mixed Numbers
- [ ] How Much Pizza?
- [ ] Improper Fractions & Mixed Numbers
- [ ] Adding Fractions
- [ ] Adding Fractions
- [ ] Fraction Number Bond
- [ ] Adding & Subtracting Mixed Numbers
- [ ] Adding Mixed Numbers
- [ ] Adding 10ths and 100ths
- [ ] Multiplying Fractions

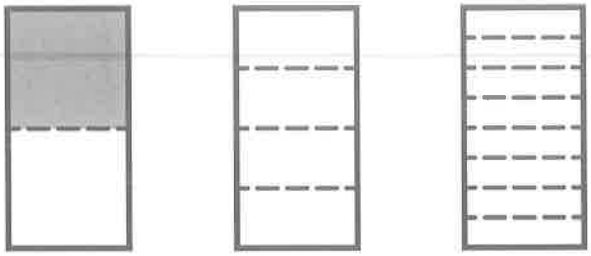
Name: _____

Equivalent Fractions

Part 1: Shade the models to find equivalent fractions.

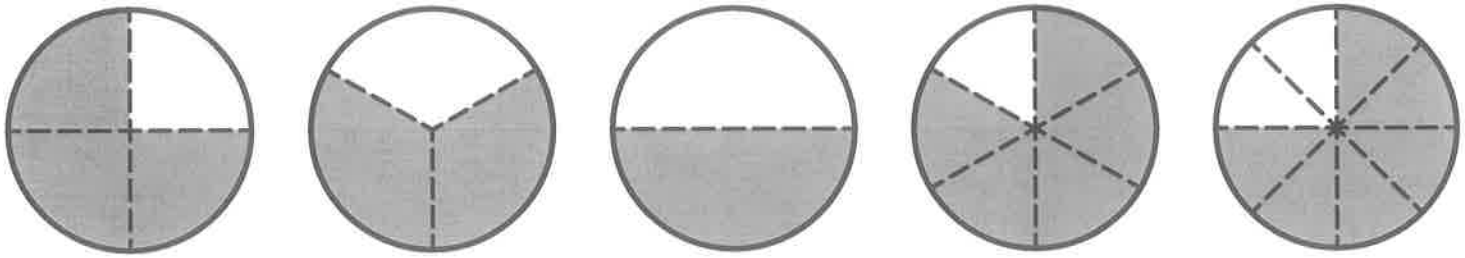


$\frac{2}{3} = \frac{\quad}{6}$



$\frac{1}{2} = \frac{\quad}{4} = \frac{\quad}{8}$

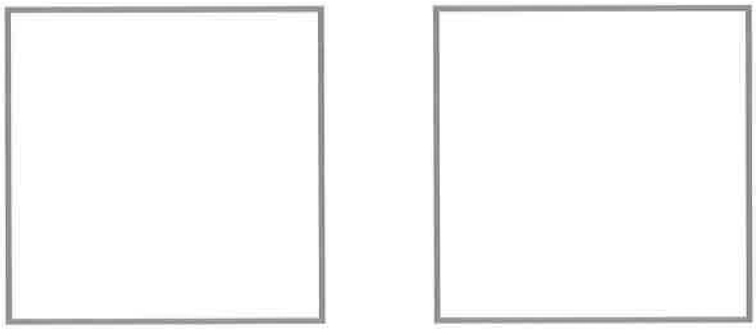
Part 2: Write the fraction that names the shaded past of each circle.



_____ _____ _____ _____ _____

Which two fractions above are equivalent? _____ and _____

Part 3: Draw a line to divide the 1st square into 2 equal parts. Shade $\frac{1}{2}$ of the square.
Then draw lines to divide the 2nd square into 4 equal parts. Shade $\frac{1}{2}$ of the square.

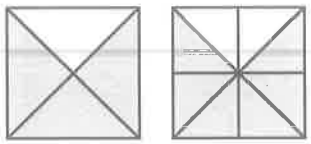


Write an equivalent fraction statement shown by the squares above. _____

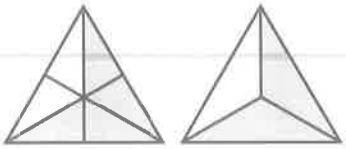
Name: _____

Equivalent Fractions

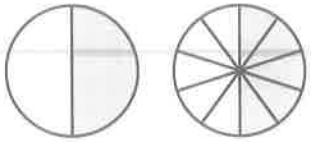
Fill in the missing fraction parts.

a. 

$\frac{3}{4} = \frac{\quad}{8}$

b. 

$\frac{4}{6} = \frac{\quad}{3}$

c. 

$\frac{1}{2} = \frac{\quad}{10}$

d. $\frac{6}{12} = \frac{\quad}{6}$

e. $\frac{1}{3} = \frac{\quad}{6}$

f. $\frac{1}{6} = \frac{\quad}{12}$

g. $\frac{5}{10} = \frac{\quad}{6}$

h. $\frac{2}{3} = \frac{\quad}{9}$

i. $\frac{2}{4} = \frac{\quad}{6}$

j. $\frac{1}{4} = \frac{\quad}{12}$

k. $\frac{6}{9} = \frac{\quad}{3}$

l. $\frac{2}{5} = \frac{\quad}{10}$

m. $\frac{6}{8} = \frac{\quad}{12}$

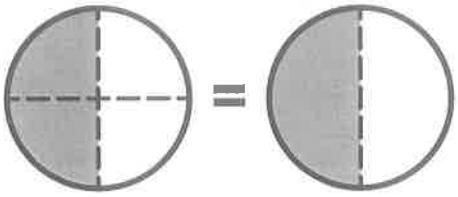
n. $\frac{5}{7} = \frac{\quad}{14}$

o. $\frac{14}{16} = \frac{\quad}{8}$

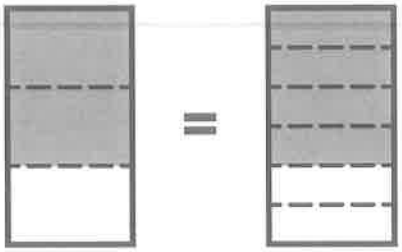
Name: _____

Equivalent Fractions

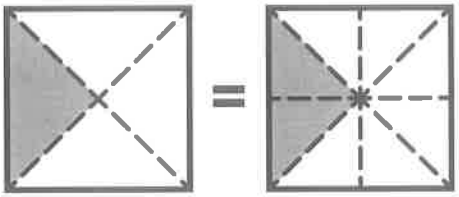
Use the models to find equivalent fractions.



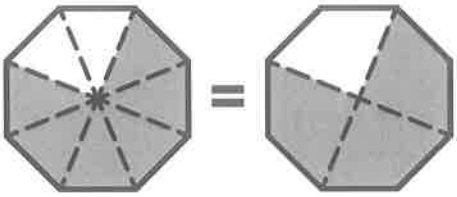
$\frac{2}{4} = \frac{\quad}{2}$



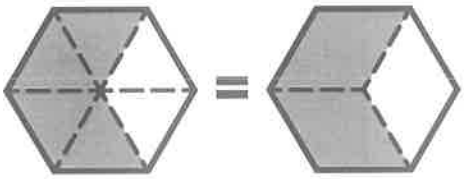
$\frac{2}{3} = \frac{\quad}{6}$



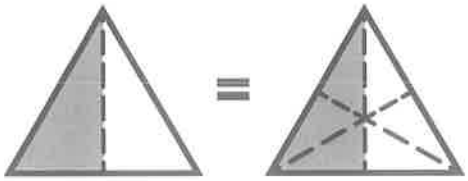
$\frac{1}{4} = \frac{\quad}{\quad}$



$\frac{6}{8} = \frac{\quad}{\quad}$

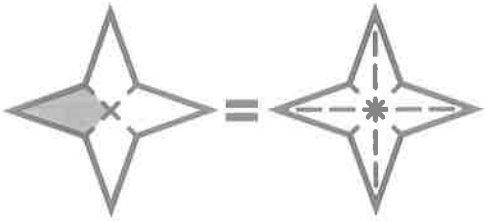


$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

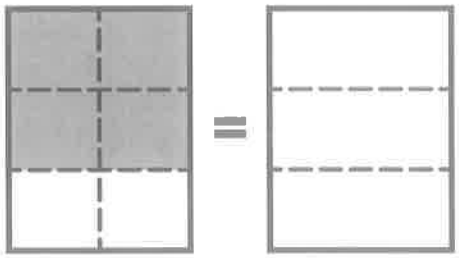


$\frac{\quad}{\quad} = \frac{\quad}{\quad}$

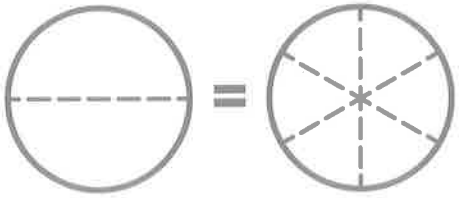
Shade the models and write the equivalent fractions.



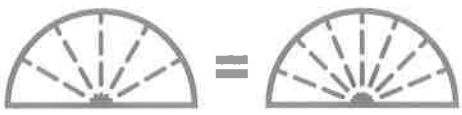
$\frac{1}{4} = \frac{\quad}{\quad}$



$\frac{4}{6} = \frac{\quad}{\quad}$



$\frac{1}{2} = \frac{\quad}{\quad}$

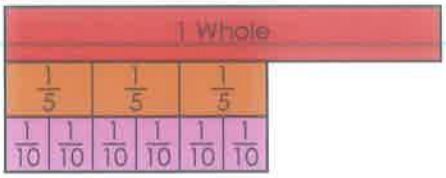


$\frac{3}{6} = \frac{\quad}{\quad}$

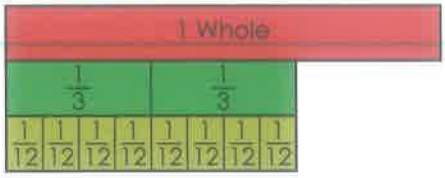
Name: _____

Fractions

Fill in the missing numerator from each fraction.



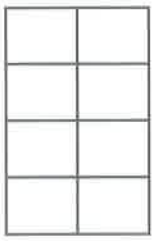
$\frac{3}{5} = \frac{\quad}{10}$

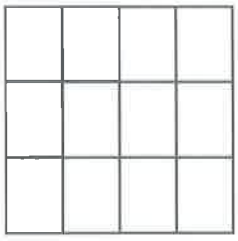


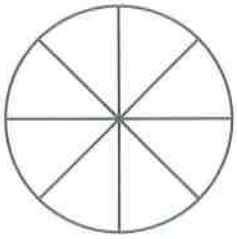
$\frac{2}{3} = \frac{\quad}{12}$

$\frac{1}{4} = \frac{\quad}{8}$

Color $\frac{3}{4}$ of each shape.

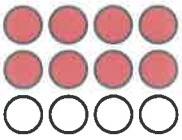






Write three equivalent fractions for the shaded portion of each illustration.

_____ = _____ = _____



_____ = _____ = _____

_____ = _____ = _____

Circle the fractions that are in simplest form. Write the simplest form of each fraction that can be simplified.

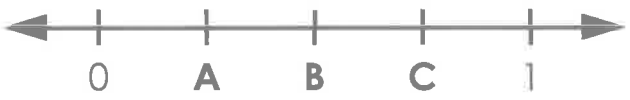
$\frac{1}{4}$ $\frac{6}{8}$ $\frac{6}{12}$

$\frac{2}{3}$ $\frac{4}{10}$ $\frac{5}{8}$

Name: _____

Number Lines

Write the fraction or mixed number represented by the letters on the number lines.

1. 

A = _____

B = _____

C = _____

2. 

D = _____

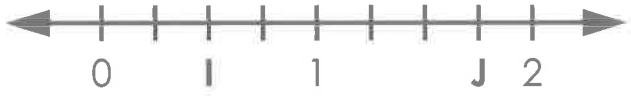
E = _____

F = _____

3. 

G = _____

H = _____

4. 

I = _____

J = _____

5. 

K = _____

L = _____

6. 

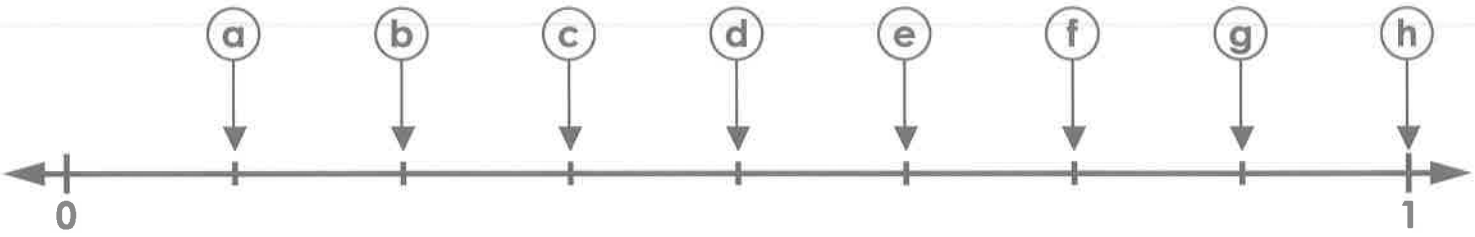
M = _____

N = _____

Name: _____

Fractions Number Line

Write the correct letter on the blank line next to each fraction.



$\frac{1}{2}$ d $\frac{7}{8}$ _____ $\frac{1}{4}$ _____ $\frac{8}{8}$ _____

$\frac{5}{8}$ _____ $\frac{3}{4}$ _____ $\frac{1}{8}$ _____ $\frac{3}{8}$ _____

Compare the fractions using **<**, **>**, and **=**.

$\frac{3}{8}$ (>) $\frac{1}{4}$ $\frac{4}{8}$ ◯ $\frac{1}{2}$ $\frac{5}{8}$ ◯ $\frac{3}{4}$

$\frac{1}{2}$ ◯ $\frac{3}{4}$ $\frac{7}{8}$ ◯ $\frac{1}{4}$ $\frac{1}{4}$ ◯ $\frac{2}{8}$

$\frac{1}{4}$ ◯ $\frac{7}{8}$ $\frac{8}{8}$ ◯ 1 $\frac{1}{2}$ ◯ $\frac{6}{8}$

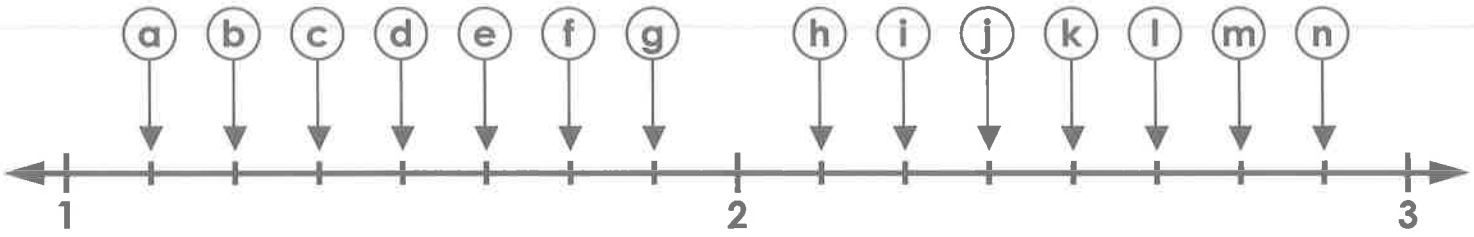
Mrs. Browning asked her class to help with safety patrol. $\frac{4}{8}$ of the class went with her to help younger students onto the buses. Mr. Tobias took $\frac{1}{2}$ of the class to help students at the crosswalk. Compare the fractions of the class that went with each teacher using **<**, **>**, or **=**.

Mrs. Browning $\frac{4}{8}$ ◯ $\frac{1}{2}$ **Mr. Tobias**

Name: _____

Mixed Fractions Number Line

Write the correct letter on the blank line next to each mixed fraction.



$1\frac{1}{4}$ b	$2\frac{5}{8}$ _____	$2\frac{3}{4}$ _____	$1\frac{3}{8}$ _____
$2\frac{1}{8}$ _____	$1\frac{7}{8}$ _____	$1\frac{1}{2}$ _____	$2\frac{7}{8}$ _____
$2\frac{1}{2}$ _____	$1\frac{5}{8}$ _____	$2\frac{1}{4}$ _____	$1\frac{1}{8}$ _____

Compare the fractions using **<**, **>**, and **=**.

$1\frac{3}{4} = 1\frac{6}{8}$	$2\frac{1}{8} \bigcirc 2\frac{1}{4}$	$1\frac{7}{8} \bigcirc 2\frac{1}{4}$
$2\frac{5}{8} \bigcirc 2\frac{1}{2}$	$1\frac{3}{8} \bigcirc 2\frac{3}{8}$	$1\frac{2}{4} \bigcirc 1\frac{2}{8}$
$2\frac{2}{8} \bigcirc 2\frac{1}{4}$	$1\frac{5}{8} \bigcirc 1\frac{3}{4}$	$2\frac{7}{8} \bigcirc 1\frac{7}{8}$
$1\frac{3}{4} \bigcirc 1\frac{4}{8}$	$2\frac{2}{4} \bigcirc 2\frac{1}{2}$	$1\frac{6}{8} \bigcirc 2\frac{2}{8}$

Name: _____

Comparing Fractions

a. Color and compare.

$\frac{3}{4}$ ◯ $\frac{5}{6}$

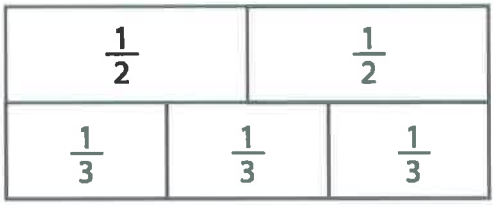
b. Write any fraction that is less than $\frac{1}{8}$.

answer: _____

c. Olivia and Hudson each have an apple. Olivia cuts hers into halves and eats one piece. Hudson cuts his into quarters and eats two pieces. Who ate more of their apple?

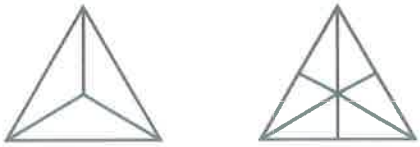
answer: _____

d. Color and compare.



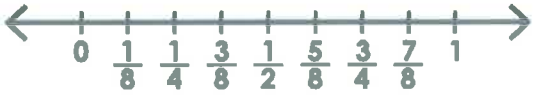
$\frac{1}{2}$ ◯ $\frac{2}{3}$

e. Color and compare.



$\frac{2}{3}$ ◯ $\frac{4}{6}$

f. Use the number line to compare the fractions below.



$\frac{3}{4}$ ◯ $\frac{3}{8}$

g. Sal and Jen ordered pizzas that were the same size. Sal ate $\frac{3}{8}$ of his pizza. Jen ate $\frac{1}{4}$ of her pizza. Who ate more pizza?

answer: _____

i. Write any fraction that is greater than $\frac{1}{2}$.

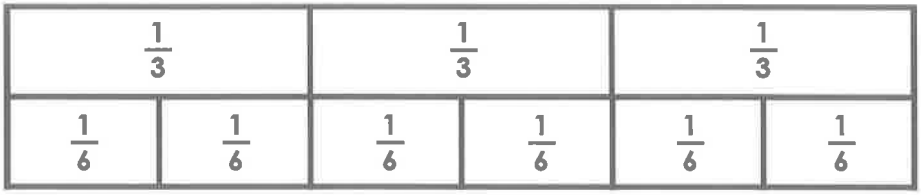
answer: _____

Name: _____

Comparing Fractions

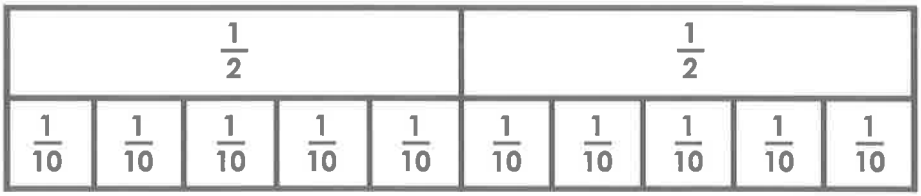
Shade the fraction strips to show the given fractions. Then compare each pair of fractions using the symbol <, >, or =.

a.



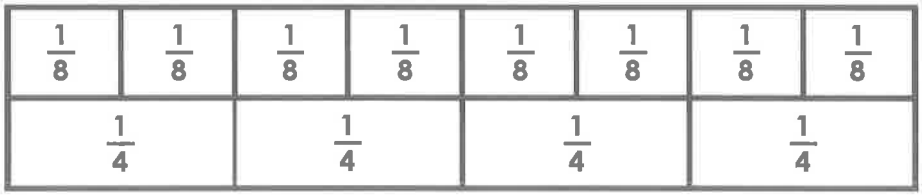
$\frac{2}{3}$ ◯ $\frac{5}{6}$

b.



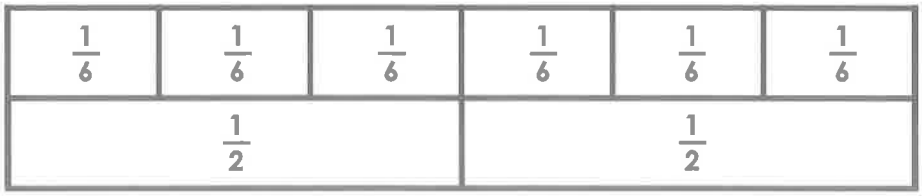
$\frac{1}{2}$ ◯ $\frac{3}{10}$

c.



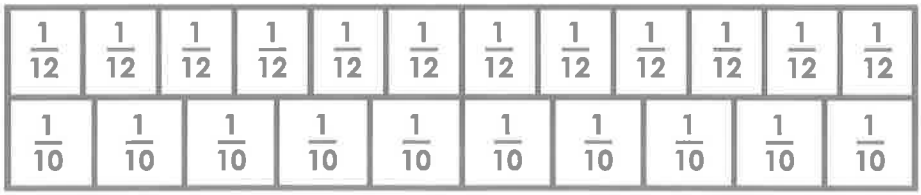
$\frac{6}{8}$ ◯ $\frac{3}{4}$

d.



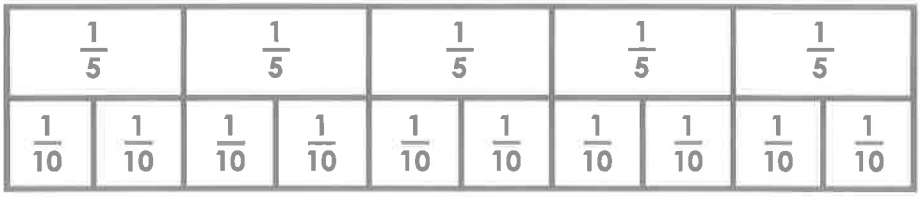
$\frac{5}{6}$ ◯ $\frac{1}{2}$

e.



$\frac{7}{12}$ ◯ $\frac{7}{10}$

f.

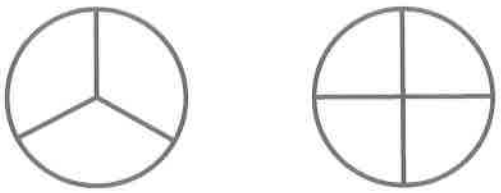


$\frac{4}{5}$ ◯ $\frac{8}{10}$

Comparing Fractions

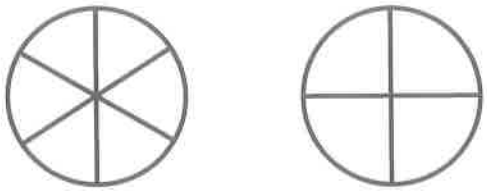
Shade the correct fraction of each shape.
Then compare each pair of fractions using the symbols **<**, **>**, and **=** .

a.



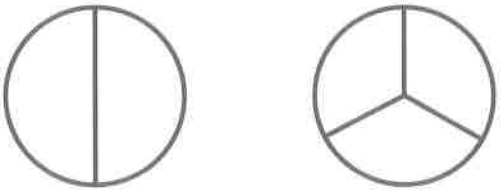
$\frac{1}{3}$ ◯ $\frac{1}{4}$

b.



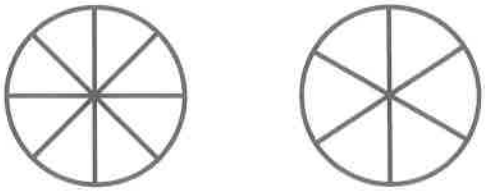
$\frac{5}{6}$ ◯ $\frac{3}{4}$

c.



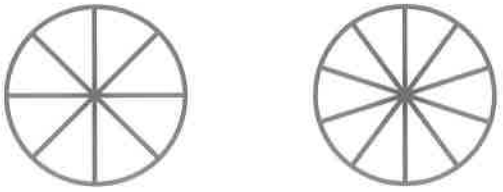
$\frac{1}{2}$ ◯ $\frac{2}{3}$

d.



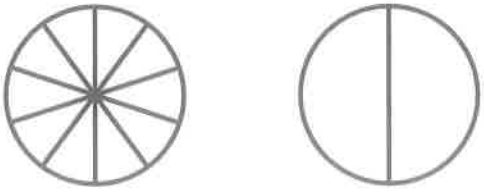
$\frac{5}{8}$ ◯ $\frac{5}{6}$

e.



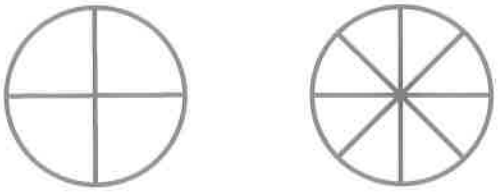
$\frac{7}{8}$ ◯ $\frac{9}{10}$

f.



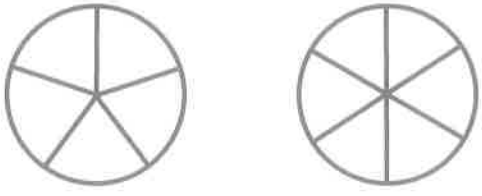
$\frac{5}{10}$ ◯ $\frac{1}{2}$

g.



$\frac{3}{4}$ ◯ $\frac{6}{8}$

h.

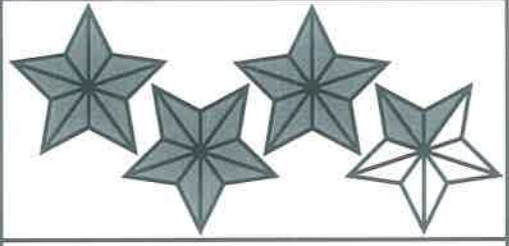
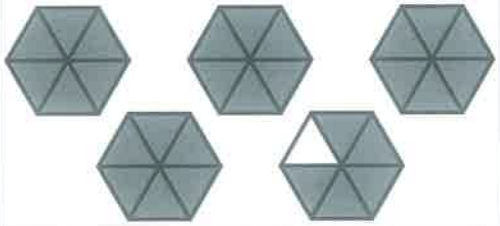
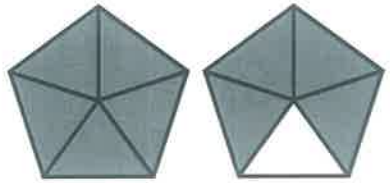
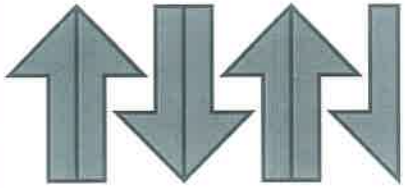


$\frac{4}{5}$ ◯ $\frac{4}{6}$

Name: _____

Mixed Numbers and Improper Fractions

Write the mixed number and improper fraction for the shaded area of each picture.

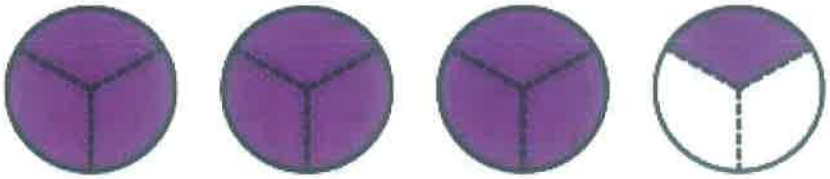
	$2\frac{1}{2}$ Mixed Number	$\frac{5}{2}$ Improper Fraction		Mixed Number	Improper Fraction
	Mixed Number	Improper Fraction		Mixed Number	Improper Fraction
	Mixed Number	Improper Fraction		Mixed Number	Improper Fraction
	Mixed Number	Improper Fraction		Mixed Number	Improper Fraction
	Mixed Number	Improper Fraction		Mixed Number	Improper Fraction

Name: _____

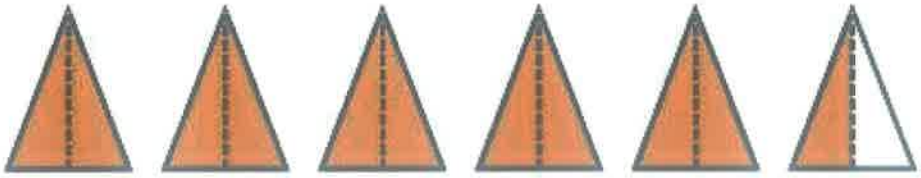
Mixed Numbers

Write a mixed number to show what part of each illustration is shaded.

a.  $2\frac{1}{4}$

b.  _____

c.  _____

d.  _____

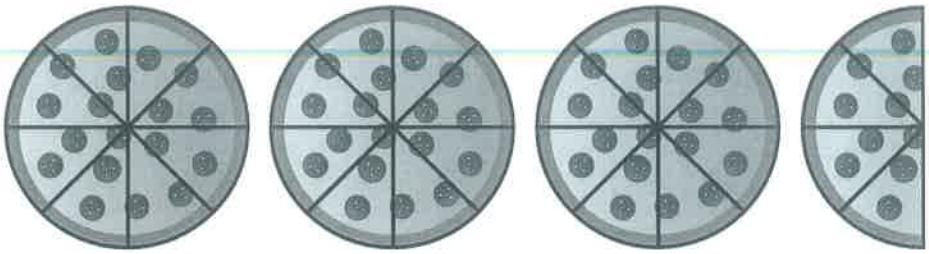
e.  _____

f.  _____

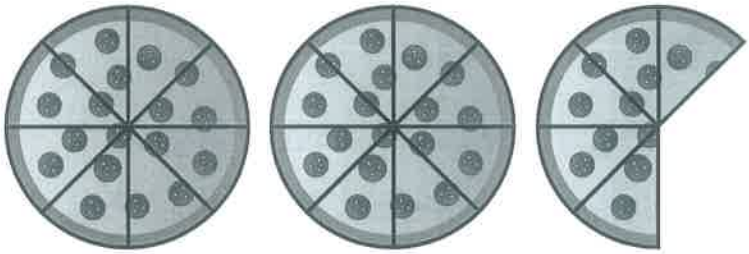
Name: _____

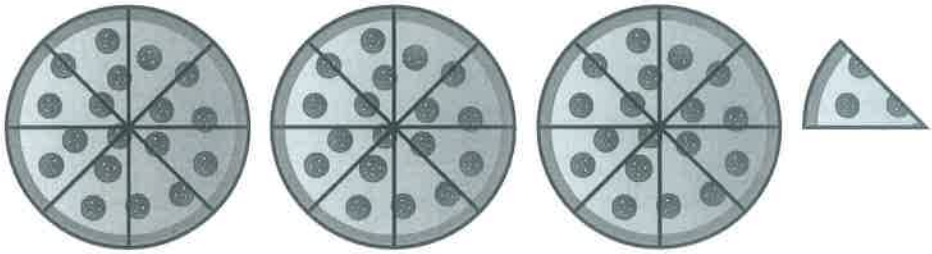
How Much Pizza?

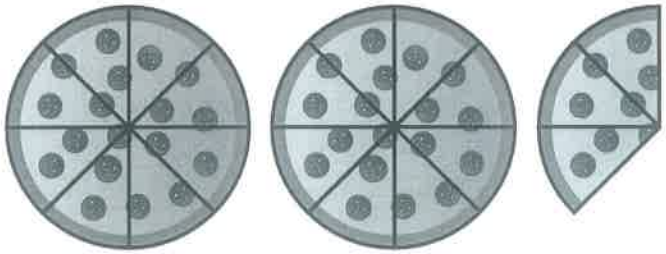
Tell how much pizza is left. Write your answers as mixed numbers.

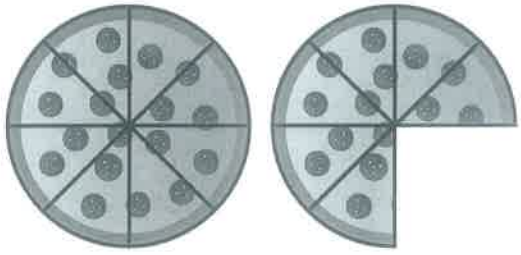
a. 

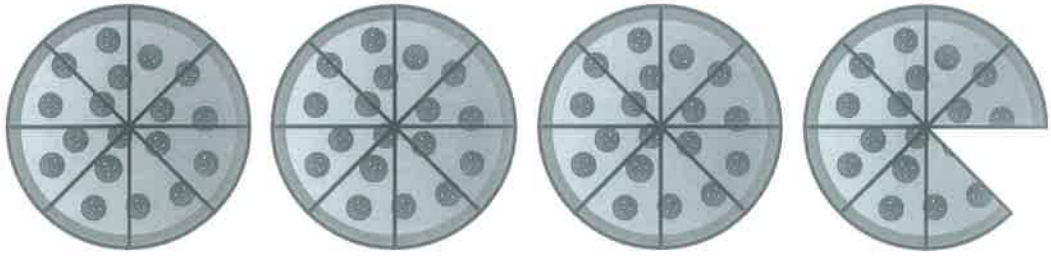
$3\frac{4}{8}$

b. 

c. 

d. 

e. 

f. 

Name: _____

Improper Fractions & Mixed Numbers

Write each mixed number as an improper fraction

a. $2\frac{1}{4} = \frac{9}{4}$ $\frac{4}{4} + \frac{4}{4} + \frac{1}{4} = \frac{9}{4}$

b. $8\frac{3}{8} =$

c. $2\frac{5}{6} =$

d. $4\frac{1}{2} =$

e. $5\frac{1}{3} =$

f. $10\frac{7}{12} =$

g. $9\frac{1}{4} =$

h. $6\frac{5}{6} =$

i. $7\frac{5}{6} =$

j. $10\frac{3}{7} =$

k. $11\frac{1}{3} =$

l. $20\frac{1}{2} =$

Write each improper fraction as a mixed number.

m. $\frac{7}{5} = \frac{5}{5} + \frac{2}{5} = 1\frac{2}{5}$

n. $\frac{9}{4} =$

o. $\frac{5}{3} =$

p. $\frac{22}{9} =$

q. $\frac{13}{7} =$

r. $\frac{9}{2} =$

s. $\frac{17}{9} =$

t. $\frac{7}{3} =$

u. $\frac{17}{7} =$

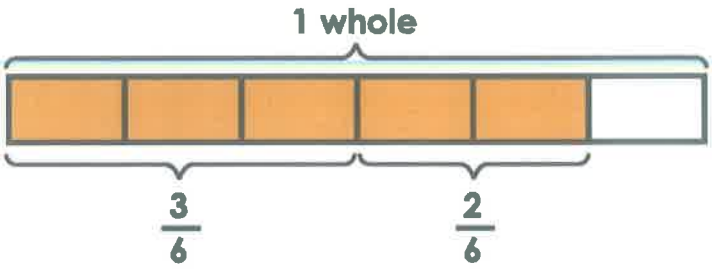
v. $\frac{10}{3} =$

w. Mrs. Jones bakes pies. She always cuts each pie into 8 slices. There are 13 slices left on the counter. Write the number of pies on the counter as a mixed number and as an improper fraction.

_____

Name: _____

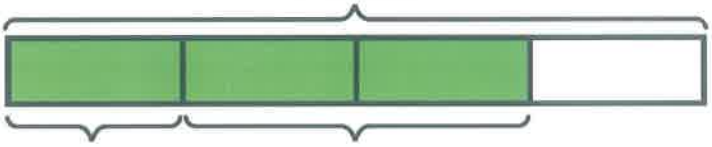
Adding Fractions



number sentence: $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

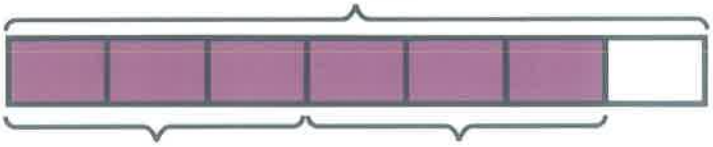
Label each tape diagram. Then write the number sentence shown by each diagram.

a.



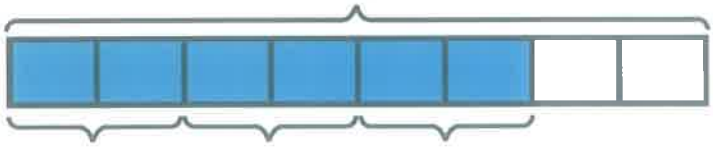
number sentence: _____

b.



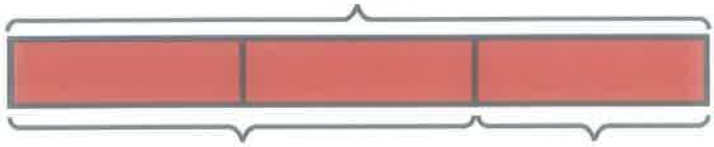
number sentence: _____

c.



number sentence: _____

d.



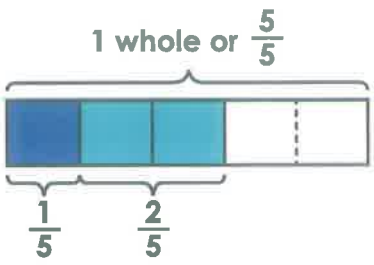
number sentence: _____

Name: _____

Adding Fractions

with the Same Denominators, No Simplifying

$$\begin{array}{r} \frac{1}{5} \\ +\frac{2}{5} \\ \hline \frac{3}{5} \end{array}$$



$$\begin{array}{r} \frac{1}{5} \\ +\frac{2}{5} \\ \hline \end{array} \qquad \begin{array}{r} \frac{1}{5} \\ +\frac{2}{5} \\ \hline \frac{}{5} \end{array} \text{ same} \qquad \begin{array}{r} \frac{1}{5} \\ +\frac{2}{5} \\ \hline \frac{3}{5} \end{array}$$

a. $\begin{array}{r} \frac{3}{6} \\ +\frac{2}{6} \\ \hline \end{array}$ b. $\begin{array}{r} \frac{5}{8} \\ +\frac{2}{8} \\ \hline \end{array}$ c. $\begin{array}{r} \frac{1}{4} \\ +\frac{2}{4} \\ \hline \end{array}$ d. $\begin{array}{r} \frac{4}{7} \\ +\frac{2}{7} \\ \hline \end{array}$ e. $\begin{array}{r} \frac{5}{9} \\ +\frac{2}{9} \\ \hline \end{array}$

f. $\begin{array}{r} \frac{4}{12} \\ +\frac{3}{12} \\ \hline \end{array}$ g. $\begin{array}{r} \frac{1}{9} \\ +\frac{3}{9} \\ \hline \end{array}$ h. $\begin{array}{r} \frac{1}{8} \\ +\frac{4}{8} \\ \hline \end{array}$ i. $\begin{array}{r} \frac{3}{5} \\ +\frac{1}{5} \\ \hline \end{array}$ j. $\begin{array}{r} \frac{5}{10} \\ +\frac{2}{10} \\ \hline \end{array}$

k. $\begin{array}{r} \frac{3}{7} \\ +\frac{2}{7} \\ \hline \end{array}$ l. $\begin{array}{r} \frac{1}{3} \\ +\frac{1}{3} \\ \hline \end{array}$ m. $\begin{array}{r} \frac{2}{9} \\ +\frac{3}{9} \\ \hline \end{array}$ n. $\begin{array}{r} \frac{5}{11} \\ +\frac{5}{11} \\ \hline \end{array}$ o. $\begin{array}{r} \frac{1}{10} \\ +\frac{6}{10} \\ \hline \end{array}$

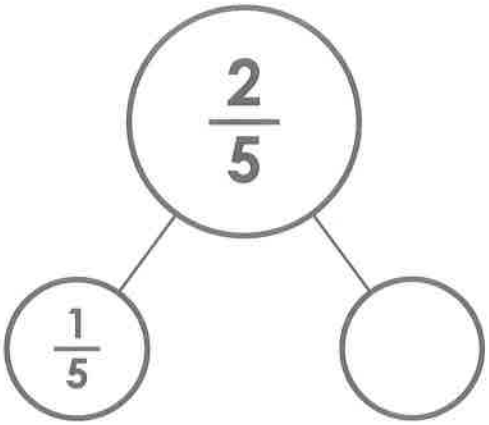
p. $\begin{array}{r} \frac{4}{9} \\ +\frac{3}{9} \\ \hline \end{array}$ q. $\begin{array}{r} \frac{1}{8} \\ +\frac{2}{8} \\ \hline \end{array}$ r. $\begin{array}{r} \frac{4}{11} \\ +\frac{5}{11} \\ \hline \end{array}$ s. $\begin{array}{r} \frac{2}{12} \\ +\frac{3}{12} \\ \hline \end{array}$ t. $\begin{array}{r} \frac{1}{7} \\ +\frac{1}{7} \\ \hline \end{array}$

Name: _____

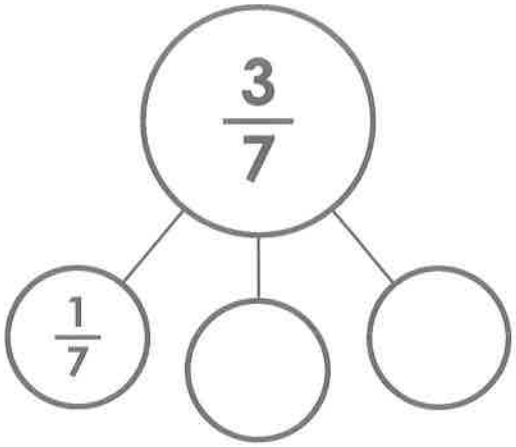
Fraction Number Bonds

Complete each number bond.

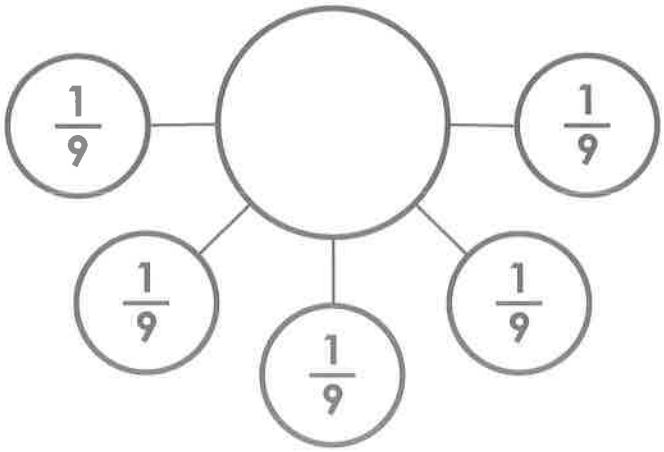
a.



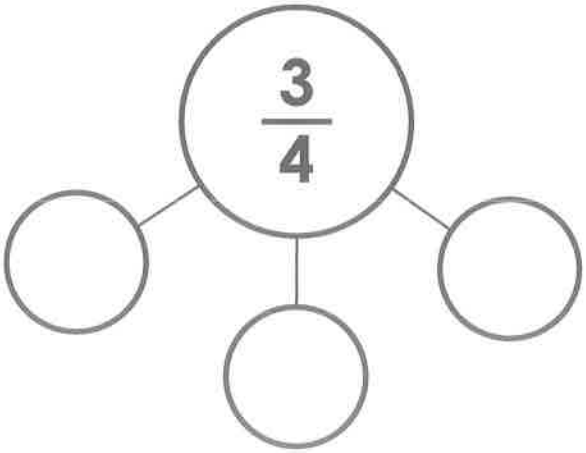
b.



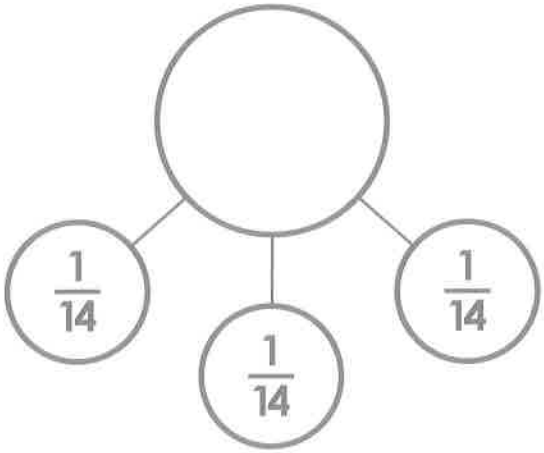
c.



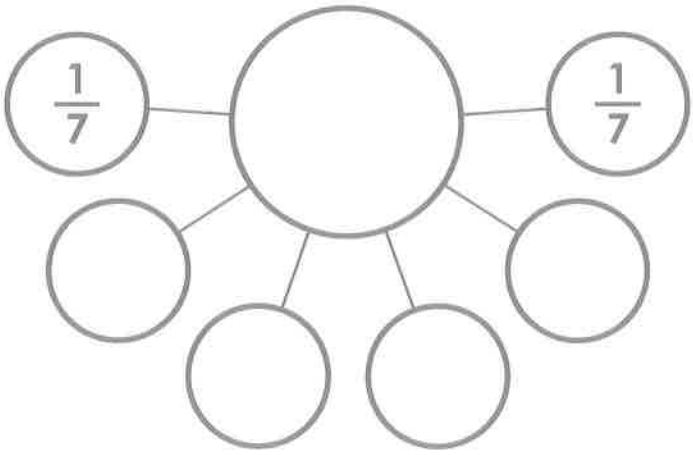
d.



e.



f.



Name: _____

Adding & Subtracting Mixed Numbers

with Like Denominators

a. $5\frac{3}{8} + 3\frac{4}{8} =$

b. $7\frac{7}{9} - 1\frac{1}{9} =$

c. $8\frac{9}{12} - 6\frac{4}{12} =$

d. $18\frac{5}{6} + 6\frac{2}{6} =$

e. $2\frac{3}{5} + 9\frac{1}{5} =$

f. $27\frac{10}{11} - 13\frac{5}{11} =$

g. $11\frac{6}{7} - 9\frac{3}{7} =$

h. $1\frac{1}{4} + 16\frac{2}{4} =$

i. $7\frac{7}{10} + 18\frac{6}{10} =$

j. $23\frac{7}{8} - 14\frac{2}{8} =$

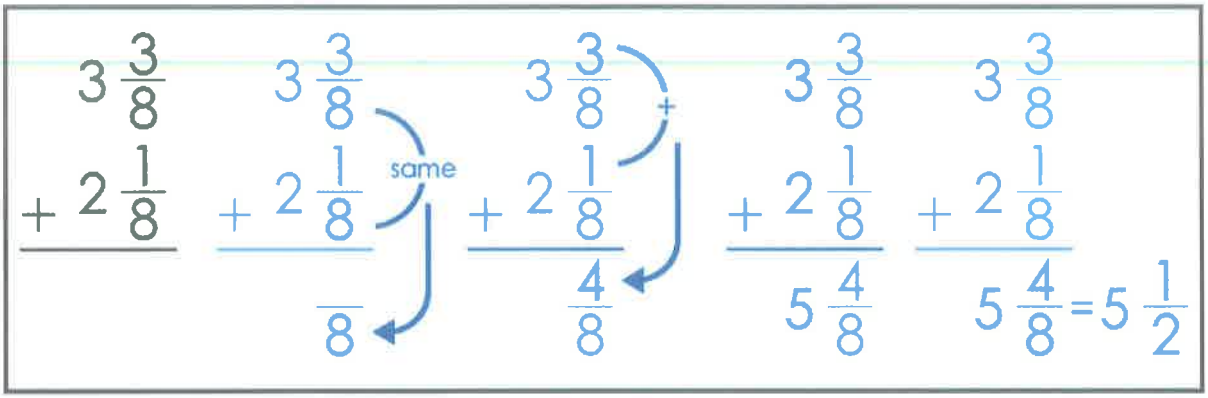
k. $3\frac{11}{12} - 2\frac{9}{12} =$

l. $9\frac{2}{7} + 9\frac{2}{7} =$

Name: _____

Adding Mixed Numbers

with the Like Denominators, Requires Simplifying



Add the fractions and simplify the answers.

a. $5\frac{2}{6} + 4\frac{2}{6}$

b. $6\frac{1}{4} + 1\frac{1}{4}$

c. $3\frac{2}{10} + 5\frac{3}{10}$

d. $3\frac{2}{8} + 6\frac{4}{8}$

e. $3\frac{2}{9} + 1\frac{1}{9}$

f. $2\frac{3}{12} + \frac{1}{12}$

g. $1\frac{3}{10} + 5\frac{5}{10}$

h. $2\frac{3}{14} + 1\frac{3}{14}$

i. $\frac{1}{6} + 4\frac{2}{6}$

j. $2\frac{1}{8} + 4\frac{1}{8}$

k. $2\frac{2}{9} + 3\frac{4}{9}$

l. $1\frac{3}{12} + 1\frac{3}{12}$

m. $6\frac{4}{10} + 2\frac{2}{10}$

n. $5\frac{6}{14} + \frac{4}{14}$

o. $1\frac{2}{12} + 7\frac{4}{12}$

p. Tom's family ate $1\frac{2}{8}$ apple pies.
Susie's family ate $1\frac{4}{8}$ cherry pies.
How much pie did both families eat?

Adding 10ths and 100ths Name:

Find the sum of the problems.

1) $\frac{8}{10} + \frac{17}{100} =$

2) $\frac{4}{10} + \frac{13}{100} =$

3) $\frac{78}{100} + \frac{1}{10} =$

4) $\frac{38}{100} + \frac{4}{10} =$

5) $\frac{1}{10} + \frac{4}{100} =$

6) $\frac{7}{10} + \frac{14}{100} =$

7) $\frac{12}{100} + \frac{2}{10} =$

8) $\frac{7}{10} + \frac{21}{100} =$

9) $\frac{3}{10} + \frac{38}{100} =$

10) $\frac{23}{100} + \frac{3}{10} =$

11) $\frac{4}{10} + \frac{27}{100} =$

12) $\frac{7}{10} + \frac{6}{100} =$

13) $\frac{6}{10} + \frac{27}{100} =$

14) $\frac{45}{100} + \frac{5}{10} =$

15) $\frac{4}{100} + \frac{3}{10} =$

16) $\frac{3}{10} + \frac{15}{100} =$

17) $\frac{27}{100} + \frac{5}{10} =$

18) $\frac{6}{10} + \frac{38}{100} =$

19) $\frac{59}{100} + \frac{3}{10} =$

20) $\frac{82}{100} + \frac{1}{10} =$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Name: _____

Multiplying Fractions

Step 1: Multiply the numerators. $\frac{3}{5} \times \frac{2}{3} = \frac{6}{\quad}$

Step 2: Multiply the denominators. $\frac{3}{5} \times \frac{2}{3} = \frac{6}{15}$

Step 3: Simplify your answer if possible. $\frac{3}{5} \times \frac{2}{3} = \frac{6}{15} = \frac{2}{5}$

a. $\frac{7}{8} \times \frac{4}{9}$

b. $\frac{4}{5} \times \frac{1}{4}$

c. $\frac{2}{9} \times \frac{1}{7}$

d. $5 \times \frac{7}{8}$

e. $\frac{2}{3} \times \frac{5}{8}$

f. $\frac{3}{4} \times 8$

g. $\frac{2}{3} \times 9$

h. $\frac{3}{7} \times \frac{5}{9}$

i. $\frac{9}{10} \times \frac{5}{18}$

j. $\frac{2}{3} \times \frac{6}{7} \times \frac{3}{5}$

k. $7 \times \frac{2}{3} \times \frac{3}{4}$