

NAME _____

DATE _____

Using the Standard Algorithm to Add & Subtract

1 Solve each addition problem using the standard algorithm.

| | | | |
|---|---|---|---|
| ex $\begin{array}{r} 1 \\ 457 \\ + 392 \\ \hline 849 \end{array}$ | a $\begin{array}{r} 638 \\ + 365 \\ \hline \end{array}$ | b $\begin{array}{r} 237 \\ + 108 \\ \hline \end{array}$ | c $\begin{array}{r} 428 \\ + 296 \\ \hline \end{array}$ |
| d $\begin{array}{r} 3,804 \\ + 568 \\ \hline \end{array}$ | e $\begin{array}{r} 2,153 \\ + 1,939 \\ \hline \end{array}$ | f $\begin{array}{r} 687 \\ + 654 \\ \hline \end{array}$ | g $\begin{array}{r} 7,689 \\ + 8,584 \\ \hline \end{array}$ |

2 Solve each subtraction problem using the standard algorithm.

| | | | |
|--|---|---|---|
| ex $\begin{array}{r} 29 \\ 1,305 \\ - 648 \\ \hline 657 \end{array}$ | a $\begin{array}{r} 745 \\ - 382 \\ \hline \end{array}$ | b $\begin{array}{r} 687 \\ - 278 \\ \hline \end{array}$ | c $\begin{array}{r} 402 \\ - 367 \\ \hline \end{array}$ |
| d $\begin{array}{r} 3,213 \\ - 935 \\ \hline \end{array}$ | e $\begin{array}{r} 2,063 \\ - 1,347 \\ \hline \end{array}$ | f $\begin{array}{r} 2,560 \\ - 1,698 \\ \hline \end{array}$ | g $\begin{array}{r} 2,502 \\ - 873 \\ \hline \end{array}$ |



CHALLENGE

3 Fill in the missing number to make each equation true.

a $146 + (\underline{\quad} \times 5) = 186$

b $(6 \times \underline{\quad}) + 50 = 74$

c $(15 \times \underline{\quad}) + 45 = 90$

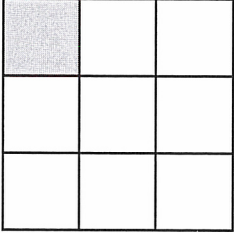
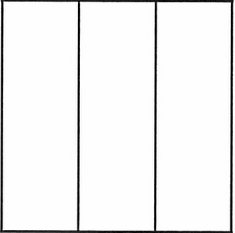
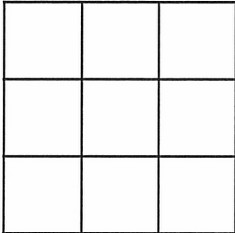
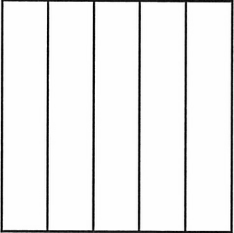
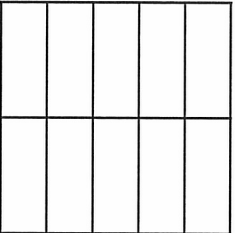
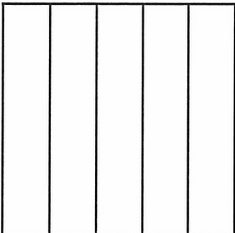
d $270 - (\underline{\quad} \times 7) = 207$

NAME _____

DATE _____

Fraction Fill & Compare

1 Fill in the shapes to show each fraction.

| | | |
|---|---|--|
| <p>example</p> $\frac{1}{9}$  | <p>a</p> $\frac{1}{3}$  | <p>b</p> $\frac{2}{9}$  |
| <p>c</p> $\frac{1}{5}$  | <p>d</p> $\frac{2}{10}$  | <p>e</p> $\frac{2}{5}$  |

2 Look at the fractions you shaded in above. Use them to help complete each number sentence by writing $<$, $>$, or $=$.

| | | |
|---|---|---|
| <p>ex $\frac{1}{3} > \frac{1}{9}$</p> | <p>a $\frac{1}{5} \quad \frac{1}{3}$</p> | <p>b $\frac{1}{3} \quad \frac{2}{9}$</p> |
| <p>c $\frac{2}{10} \quad \frac{2}{9}$</p> | <p>d $\frac{1}{5} \quad \frac{2}{10}$</p> | <p>e $\frac{2}{5} \quad \frac{2}{10}$</p> |



CHALLENGE

3 Use what you know about fractions to complete each number sentence by writing $<$, $>$, or $=$.

| | | |
|---|---|---|
| <p>a $\frac{1}{100} \quad \frac{1}{50}$</p> | <p>b $\frac{2}{100} \quad \frac{1}{50}$</p> | <p>c $\frac{1}{4} \quad \frac{1}{16}$</p> |
|---|---|---|

NAME _____

DATE _____

The 18¢ Problem

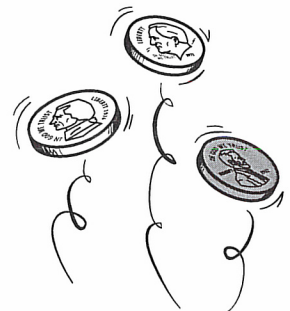
1 What are all the different ways can you make 18¢ with pennies, nickels, and dimes?

a Choose the strategy you will use to solve this problem.

- draw a picture guess and check make an organized list

b Why does this strategy make the most sense to you?

c Solve the problem with the strategy you picked. Show all your work.



NAME _____

DATE _____

Division & Fractions

1 Complete the division facts. They may help you with the next problem.

a $20 \div 5 = \underline{\quad}$

b $20 \div 10 = \underline{\quad}$

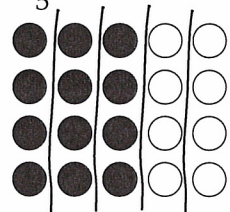
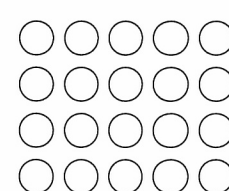
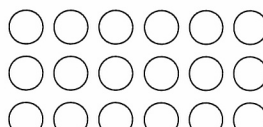
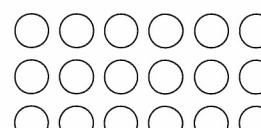
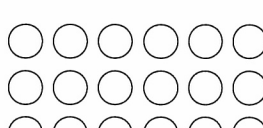
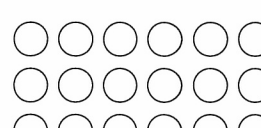
c $18 \div 2 = \underline{\quad}$

d $18 \div 3 = \underline{\quad}$

e $18 \div 6 = \underline{\quad}$

f $18 \div 9 = \underline{\quad}$

2 Divide each set into equal groups. Shade in some circles as directed.

| | |
|--|--|
| <p>ex Shade in $\frac{3}{5}$ of the circles.</p>  <p>5 equal groups, 3 groups are shaded in.</p> | <p>a Shade in $\frac{2}{10}$ of the circles. Hint: <i>Divide the set into 10 equal groups.</i></p>  |
| <p>b Shade in $\frac{1}{2}$ of the circles. Hint: <i>Divide the set into 2 equal groups.</i></p>  | <p>c Shade in $\frac{2}{6}$ of the circles. Hint: <i>Divide the set into 6 equal groups.</i></p>  |
| <p>d Shade in $\frac{1}{3}$ of the circles. Hint: <i>Divide the set into 3 equal groups.</i></p>  | <p>e Shade in $\frac{4}{9}$ of the circles. Hint: <i>Divide the set into 9 equal groups.</i></p>  |

3a Find two fractions above that are equal. Write them here:

b How do you know these fractions are equal?

NAME _____

DATE _____

The Third Graders' Garden Plot

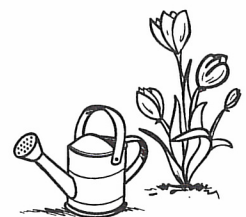
1 Last year, the third graders at Jackson Elementary had a garden plot that was 12 feet by 33 feet. This year the third graders made the plot bigger by making it 16 feet by 38 feet. How much bigger was the perimeter of the plot this year?

a Choose the strategy you will use to solve this problem.

draw a picture guess and check make an organized list

b Why does this strategy make the most sense to you?

c Solve the problem with the strategy you picked. Show all your work.



NAME _____

DATE _____

Addition & Subtraction with the Standard Algorithm

1 Solve each addition problem using the standard algorithm.

| | | | |
|---|---|---|---|
| example $\begin{array}{r} 457 \\ + 392 \\ \hline 849 \end{array}$ | a $\begin{array}{r} 403 \\ + 238 \\ \hline \end{array}$ | b $\begin{array}{r} 573 \\ + 348 \\ \hline \end{array}$ | c $\begin{array}{r} 226 \\ + 901 \\ \hline \end{array}$ |
| d $\begin{array}{r} 2,740 \\ + 342 \\ \hline \end{array}$ | e $\begin{array}{r} 3,029 \\ + 1,452 \\ \hline \end{array}$ | f $\begin{array}{r} 4,098 \\ + 3,429 \\ \hline \end{array}$ | g $\begin{array}{r} 5,768 \\ + 7,431 \\ \hline \end{array}$ |

2 Solve each subtraction problem using the standard algorithm.

| | | | |
|---|---|---|---|
| example $\begin{array}{r} 1,305 \\ - 648 \\ \hline 657 \end{array}$ | a $\begin{array}{r} 638 \\ - 553 \\ \hline \end{array}$ | b $\begin{array}{r} 503 \\ - 229 \\ \hline \end{array}$ | c $\begin{array}{r} 1,800 \\ - 925 \\ \hline \end{array}$ |
| d $\begin{array}{r} 4,309 \\ - 526 \\ \hline \end{array}$ | e $\begin{array}{r} 6,005 \\ - 1,347 \\ \hline \end{array}$ | f $\begin{array}{r} 5,078 \\ - 5,019 \\ \hline \end{array}$ | g $\begin{array}{r} 2,455 \\ - 1,990 \\ \hline \end{array}$ |



CHALLENGE

3 Fill in the missing number to make each equation true.

a $700 = 670 + (\text{_____} \times 5)$

b $842 = (7 \times \text{_____}) + 800$

c $(9 + 3) + (3 \times \text{_____}) = 36$

d $(\text{_____} \times 25) - 42 = 33$

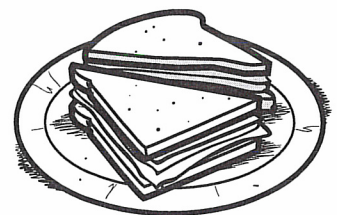
NAME _____

DATE _____

Sandwich Fractions

1 Wanda and her sister Lola were eating sandwiches. The sandwiches were the same size. Wanda ate $\frac{1}{2}$ of her sandwich. Lola ate $\frac{3}{4}$ of her sandwich. Who ate more of her sandwich, Wanda or Lola? Explain how you know using pictures, numbers, and/or words.

2 Lucy and her brother Bob were eating sandwiches at a picnic. The sandwiches were all the same size. Lucy ate $\frac{1}{2}$ of a peanut butter sandwich and $\frac{1}{4}$ of an egg salad sandwich. Bob ate $\frac{1}{4}$ of a tuna sandwich and $\frac{3}{4}$ of a turkey sandwich. Who ate more, Lucy or Bob? Explain how you know using pictures, numbers, and/or words.



NAME _____

DATE _____

More Division & Fractions

1 Complete the division facts. They may help you with the next problem.

a $20 \div 5 = \underline{\quad}$

b $20 \div 10 = \underline{\quad}$

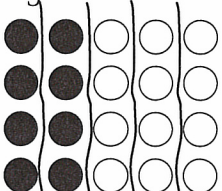
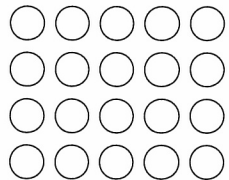
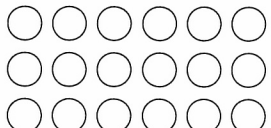
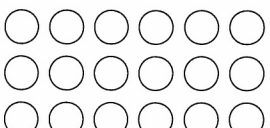
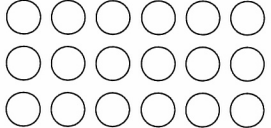
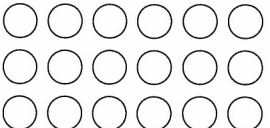
c $18 \div 2 = \underline{\quad}$

d $18 \div 3 = \underline{\quad}$

e $18 \div 6 = \underline{\quad}$

f $18 \div 9 = \underline{\quad}$

2 Divide each set into equal groups. Shade in some circles to show each fraction. (Hint: The denominator (bottom number) shows how many equal groups. The division problems above will help you think about how many circles should be in each equal group.)

| | |
|---|---|
| <p>ex Shade in $\frac{2}{5}$ of the circles.</p>  <p>5 equal groups. 2 groups are shaded in.</p> | <p>a Shade in $\frac{4}{10}$ of the circles.</p>  |
| <p>b Shade in $\frac{3}{6}$ of the circles.</p>  | <p>c Shade in $\frac{5}{6}$ of the circles.</p>  |
| <p>d Shade in $\frac{2}{3}$ of the circles.</p>  | <p>e Shade in $\frac{8}{9}$ of the circles.</p>  |

3 Which fraction or fractions above are less than $\frac{1}{2}$?

4 Write $<$, $>$, or $=$ to compare two fractions. Use the pictures above to help.

| | | |
|--|--|--|
| <p>a $\frac{2}{5}$ $\frac{2}{3}$</p> | <p>b $\frac{5}{6}$ $\frac{8}{9}$</p> | <p>c $\frac{3}{6}$ $\frac{2}{3}$</p> |
|--|--|--|

NAME _____

DATE _____

Sophie's Marbles & Ricky's Fish

1a Sophie had a big bag of marbles. $\frac{1}{4}$ of them were blue, $\frac{1}{8}$ of them were red, $\frac{1}{2}$ of them were green, and $\frac{1}{8}$ of them were yellow. Were there more blue, red, green, or yellow marbles? Use numbers, pictures, and/or words to explain how you know.

b Were there more blue or red marbles? Use numbers, pictures, and/or words to explain how you know.



2 Ricky had 20 small fish in his fish tank. $\frac{2}{5}$ of them were blue and $\frac{1}{4}$ of them were purple. Did he have more blue fish or purple fish? Use numbers, pictures, and/or words to explain how you know.

