Application Problem 2.1.1a Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mrs. Potter paints her fingernails one at a time from left to right.

1) If she paints 1 fingernail, how many fingernails

will she have unpainted?

**Mrs. Potter will have \_\_\_\_\_\_ fingernails unpainted.**

2) How many other combinations of painted

and unpainted nails can she have?

**Mrs. Potter can have \_\_\_\_\_\_\_\_ other combinations.**

Application Problem 2.1.1b Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The cashier puts exactly 10 bills inside each envelope.

How many more bills does he need to put in each of the following envelopes?

a. An envelope with 9 bills. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. An envelope with 5 bills. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. An envelope with 1 bill. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d. Find other numbers of bills that might be in an envelope and tell how many more bills the cashier needs to put to make 10 bills.

\_\_\_\_\_\_\_\_ bills \_\_\_\_\_\_\_\_\_\_\_\_more bills needed

\_\_\_\_\_\_\_\_ bills \_\_\_\_\_\_\_\_\_\_\_\_more bills needed

A different cashier puts exactly 30 bills in each envelope. How many more bills does he need to put in each of the following envelopes?

a. An envelope with 28 bills. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. An envelope with 22 bills. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. An envelope with 24 bills. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Application Problem 2.1.2a Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There are both red and green apples in a bag. There are 9 apples total. How many red and how many green apples might there be in the bag?

Draw a picture:

**There might be \_\_\_\_\_\_ red apples and \_\_\_\_\_\_ green apples.**

Application Problem 2.1.2b Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sherry already has 10 stickers.

Now her goal is to collect 20 in all.

She got 4 more on Monday and 4 again on Tuesday.

1) How many does she have in all?

**Sherry has \_\_\_\_\_\_\_\_ stickers in all.**

2) How many more does she need to make her goal?

**Sherry needs\_\_\_\_\_\_\_\_ more stickers to make her goal.**

3) How many does she need if her goal is to collect

30 stickers?

**Sherry needs\_\_\_\_\_more stickers to collect 30 stickers.**

Application Problem 2.1.3 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ben and Chuck collect dimes.

They do it by first collecting pennies and then trading with their parents 10 pennies for 1 dime.

Ben has 8 pennies and Chuck has 9 pennies.

They each find 4 more pennies.

1) How many pennies does each boy have before

they trade?

**Ben has \_\_\_\_\_\_\_ pennies. Chuck has \_\_\_\_\_\_\_ pennies.**

2) How many extra pennies does each boy have

after they trade?

**Ben has \_\_\_\_ extra pennies. Chuck has \_\_\_\_ extra pennies.**

3) How many more pennies does each boy need

before he can trade for another dime?

**Ben needs \_\_\_\_\_\_\_ more pennies.**

**Chuck needs \_\_\_\_\_\_\_ more pennies.**

Application Problem 2.1.4a Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Melia and Maya both love animals.

Melia counted 17 puppies in one cage at the animal shelter and 3 in another cage.

Maya counted 13 kittens in one cage and 7 in another.

1) How many kittens are there in all?

**There are \_\_\_\_\_\_\_\_ kittens in all.**

2) How many puppies are there in all?

**There are \_\_\_\_\_\_\_\_\_\_\_puppies in all.**

3) Write a sentence comparing the number of

puppies and kittens.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Application Problem 2.1.4b Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Melia and Maya both love animals. Melia counted 47 puppies in one cage at the animal shelter and 3 in another cage. Maya counted 43 kittens in one cage and 7 in another.

How many animals are there in all?

Draw a picture:

3. Write your answer in a complete sentence:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Application Problem 2.1.5a Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Read the problem:

Pencils come 12 to a package. Shane gives some pencils to his friends. Now he has 7 left. How many pencils did he give away?

2. Draw a picture: (bar model, number bond, number line, tens and ones blocks, number discs, etc.)

3. Write your answer in a complete sentence:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Application Problem 2.1.5b Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sylvia has a dime and three pennies. A friend asked her for 8 cents.

1) What can Sylvia do to be able to give her friend 8 cents?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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2) How much money would she have left after giving away

8 cents?

Draw a picture: (bar model, number bond, number line, tens and ones blocks, number discs, etc.)

Write your answer in a complete sentence:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Application Problem 2.1.7 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

One box fits exactly 10 cans. On Monday, Maria packed 18 cans into boxes, making sure to fill a box before beginning a new one. On Tuesday she added 6 more cans.

1) How many boxes were completely filled then?

**\_\_\_\_\_\_\_\_\_\_\_\_boxes were completely filled.**

2) How many cans did Maria pack in all?

**Maria packed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cans in all.**

3) How many more cans did Maria need to fill another box?

**Maria needed \_\_\_\_\_\_\_\_\_ more cans to fill another box.**

Application Problem 2.1.8 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.) Read the problem:

Kayla has 21 stickers. She gives Sergio 7 stickers. How many stickers does she have left?

2. Draw a picture: (bar model, number bond, number line, tens and ones blocks, number discs, etc.)

3. Write your answer in a complete sentence:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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