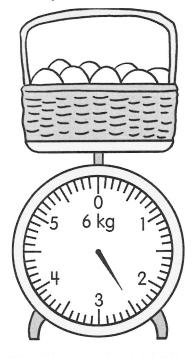
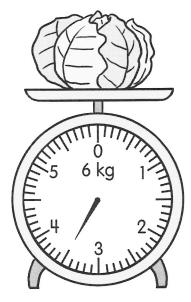
Example -



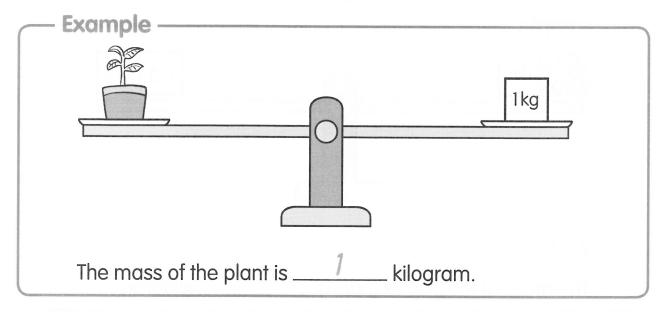
The mass of the basket of eggs is more than (2/3) kilograms.

5.

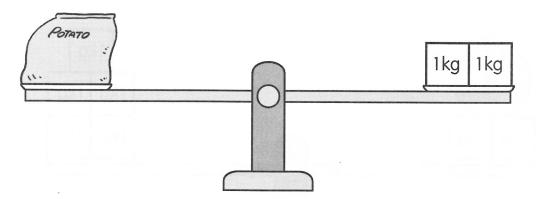


The mass of the cabbage is more than (3/4) kilograms.

Find the mass of each object in kilograms.



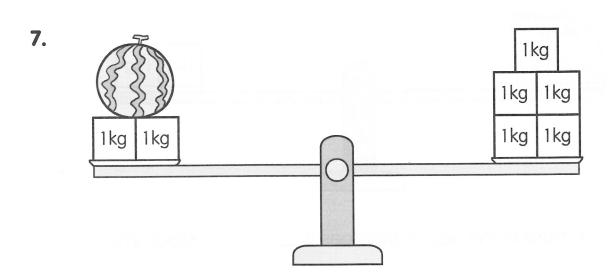
6.



The mass of the bag of potatoes is _____ kilograms.

Subtract to find the mass of each object in kilograms.

Example 2-1=The mass of the bag of grapes is ______ kilogram.

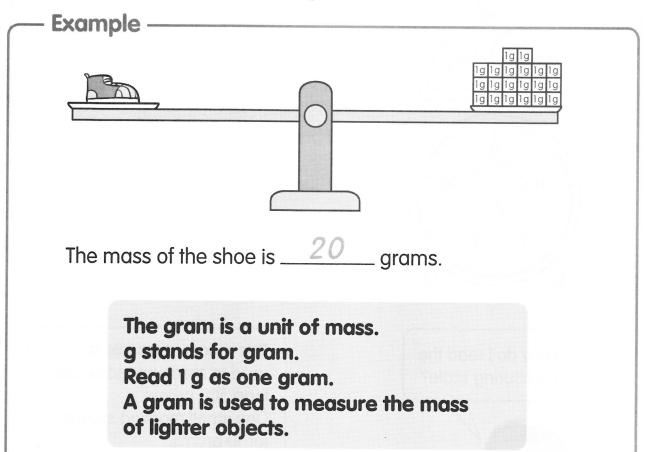


5 – 2 = _____

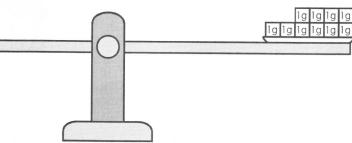
The mass of the watermelon is _____ kilograms.

Worksheet 3 Measuring in Grams

Find the mass of each object in grams.



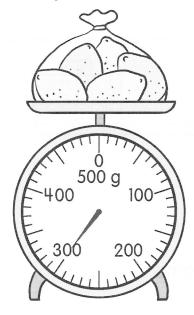
1.



The mass of the clock is _____ grams.

Read the measuring scale to find the mass of each object.

Example



How do I read the measuring scale?

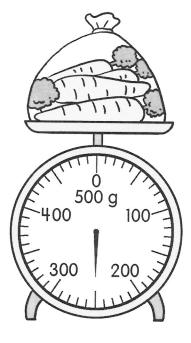


This measuring scale is used to measure mass less than 500 grams.
One small marking stands for 10 grams.



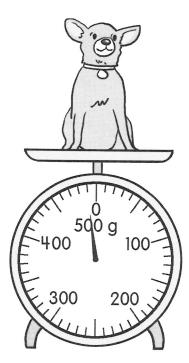
The mass of the bag of lemons is 300 grams.

2.



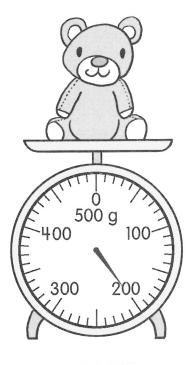
The mass of the bag of carrots is _____ grams.

3.



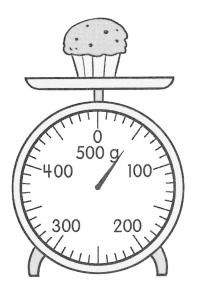
The mass of the puppy is _____ grams.

4.



The mass of the teddy bear is _____ grams.

5.



The mass of the muffin is _____ grams.

Worksheet 5 Real-World Problems: Mass

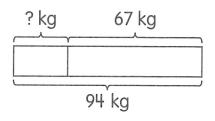
Solve.

Use the bar models to help you.

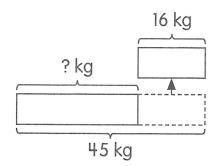
Example -

Joseph and his suitcase weigh 94 kilograms in all. Joseph weighs 67 kilograms.

What is the mass of the suitcase?



1. A grocer has 45 kilograms of onions. He sells 16 kilograms of onions. How many kilograms of onions does he have left?

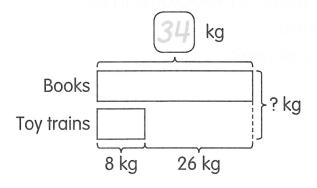


He has _____ kilograms of onions left.

Example

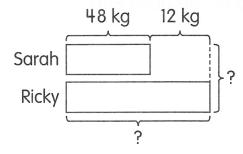
A box full of toy trains is 26 kilograms lighter than a box full of books.

The mass of the box of toy trains is 8 kilograms. Find the total mass of the two boxes.



The total mass of the two boxes is $\frac{42}{100}$ kilograms.

2. Sarah has a mass of 48 kilograms.
She is 12 kilograms lighter than Ricky.
What is the total mass of Ricky and Sarah?



The total mass of Ricky and Sarah is _____ kilograms.

Name: ______ Date: _____

Solve.

Draw bar models to help you.

3. A restaurant bought 140 kilograms of meat.
The chef cooked 45 kilograms of meat in the afternoon.
How many kilograms of meat were left?

_____ kilograms of meat were left.

4. The mass of a box of potatoes is 950 grams. The mass of the potatoes is 700 grams. What is the mass of the box?

The mass of the box is _____ grams.

The mass of a table is 16 kilograms.
The mass of a chair is 12 kilograms less than the mass of the table.

What is the total mass of the table and the chair?

The total mass of the table and the chair is _____ kilograms.

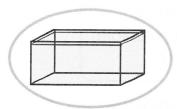
6. Duncan's toy box is 140 grams heavier than Pete's toy box. The mass of Duncan's toy box is 500 grams. What is the total mass of the two toy boxes.

The total mass of the two toy boxes is _____ grams.

Worksheet 2 Measuring in Liters

Circle the container that holds more than 1 liter of water.

Example -





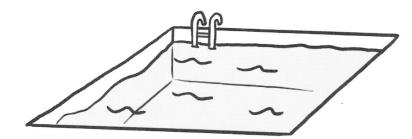
The liter is a unit of volume.

L stands for liter.

Read 1 L as 1 liter.

A liter is used to measure greater volume.

1





2.





Use *more than* or *less than* to complete each sentence.

Example



A 1-liter measuring cup can be used to measure volume. Does this measuring cup contain less than 1 liter of water?



This measuring cup contains <u>less than</u> 1 liter of water.

3.



This measuring cup contains ______ 1 liter of water.

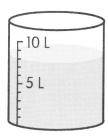
Find the volume of water in each container.

4.



Volume of water =

5.



Volume of water = ____ liters

Look at the pictures. Then fill in the blanks.

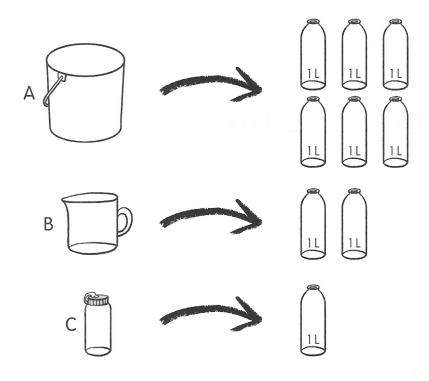




- Container A contains _____ liters of water. 6.
- 7. Container B contains _____ liter of water.
- 8. Container A contains _____ more liters of water than Container B.
- 9. Container B contains _____ fewer liters of water than Container A.

Look at the pictures.

Then find the missing numbers and letters.



- **10.** Container B has ______ liters of water.
- 11. Container _____ has the greatest amount of water.
- **12.** Container _____ contains two times as much water as Container C.
- 13. Container A has ______ liters of water more than Container B.
- 14. Order the containers.

 Begin with the container that has the least amount of water.

_____, ____, ____, _____, ____

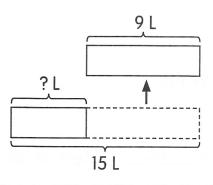
Worksheet 3 Real-World Problems: Volume

Solve.

Use the bar models to help you.

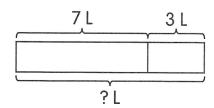
Example -

A bucket contains 15 liters of water. Jocky uses 9 liters to water the plants. How much water is left in the bucket?



_____6 liters of water are left in the bucket.

Jennifer mixes apple juice and carrot juice in a jug. The jug contains 7 liters of apple juice. It also contains 3 liters of carrot juice. How much juice is in the jug in all?



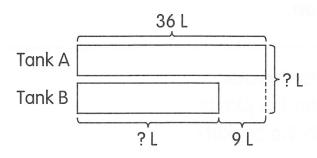
The volume of juice in the jug is _____ liters.

Example -

Tank A contains 36 liters of water.

Tank B contains 9 liters of water less than Tank A.

What is the volume of water in both tanks in all?



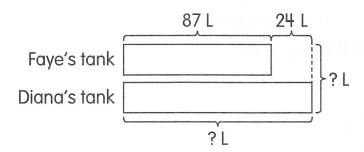
Tank B contains ______ liters of water.

The volume of water in both tanks is _____63___ liters in all.

2. Diana's water tank contains 24 liters more water than Faye's water tank.

Faye's water tank contains 87 liters of water.

How much water do both tanks contain in all?



The volume of water in both tanks is _____ liters.

Solve.

Draw bar models to help you.

3. Sophia collects 14 liters of rainwater in July. She collects 8 liters of rainwater in August. How much rainwater does she collect in all?

She collects _____ liters of rainwater in all.

4. A water tank contains 30 liters of water. Mrs. Renata uses 8 liters of water for drinking. How much water is left in the tank?

_____ liters of water are left in the tank.

5. A fish tank contains 7 liters of water.
Tommy pours out 2 liters of water from the tank.
He pours another 4 liters of sea water into the tank.
What is the volume of water in the tank now?

The volume of water in the tank now is _____ liters.

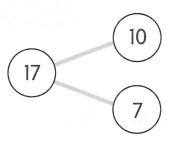
6. A company uses 45 liters of water on Monday. It uses 14 fewer liters of water on Tuesday. How much water does the company use on both days?

The company uses _____ liters of water on both days.

Worksheet 2 Mental Addition

Add mentally.
Use number bonds to help you.

1. Find 17 + 2. Group 17 into tens and ones.

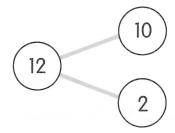


Step 1 Add the ones.

Step 2 Add the result to the tens.

So, 17 + 2 = _____.

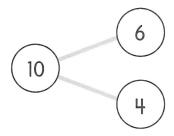
2. 12 + 3 = _____



Add mentally. Use number bonds to help you.

Example -

Find 77 + 6.



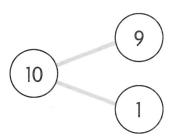
Adding 6 is the same as adding 10 and subtracting 4.



Step 1 Add 10 to 77.

So,
$$77 + 6 = 83$$
.

3. Find 56 + 9.



Step 1 Add 10 to 56.

_____ + 10 = _____

Step 2 Subtract 1 from the result.

____=_

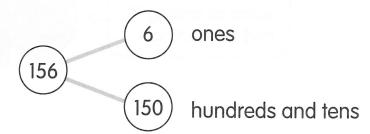
Add mentally.

Use number bonds to help you.

Example -

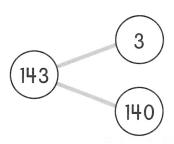
Find 156 + 3.

Group 156 into ones, and hundreds and tens.



So,
$$156 + 3 = 159$$
.

4. Find 143 + 4. Group 143 into ones, and hundreds and tens.



Step 1 Add the ones.

Step 2 Add the result to the hundreds and tens.

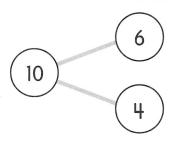
So, 143 + 4 = _____.

Add mentally.

Use number bonds to help you.

Example —

Find 147 + 6.



Adding 6 is the same as adding 10 and subtracting 4.

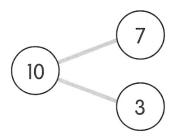


Step 1 Add 10 to 147.

Step 2 Subtract 4 from the result.

So,
$$147 + 6 = 153$$

$$147 + 10 = 157$$



Step 1 Add 10 to 256.

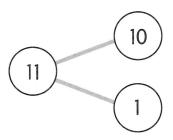
256 + 10 = _____

Step 2 Subtract 3 from the result.

_____ - 3 = _____

Add mentally.
Use number bonds to help you.

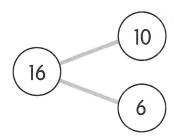
6. Find 11 + 10. Group 11 into tens and ones.



- **Step 1** Add the tens.
- **Step 2** Add the result to the ones.

- 10 + 10 = ____
- ____+___=___

7. 16 + 10 = _____



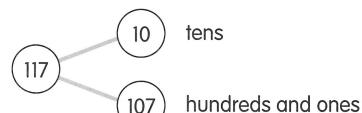
Add mentally.

Use number bonds to help you.

Example -

Find 117 + 40.

Group 117 into tens, and hundreds and ones.



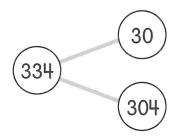
Step 1 Add the tens.

Step 2 Add the result to the hundreds and ones.

So, 117 + 40 = 157.

8. Find 334 + 20.

Group 324 into tens, and hundreds and ones.



Step 1 Add the tens.

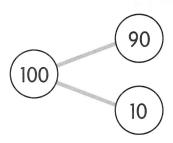
Step 2 Add the result to the hundreds and ones.

So, 334 + 20 =_____.

Add mentally.
Use number bonds to help you.

Example -

Find 328 + 90.



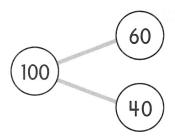
Adding 90 is the same as adding 100 and subtracting 10.



Step 1 Add 100 to 328.

$$328 + 100 = 428$$

9. Find 232 + 60.



Step 1 Add 100 to 232.

Step 2 Subtract 40 from the result.

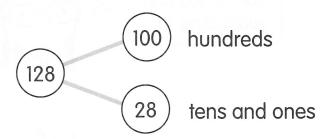
Add mentally.

Use number bonds to help you.

Example —

Find 128 + 300.

Group 128 into hundreds, and tens and ones.



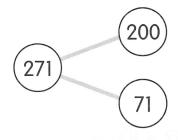
Step 1 Add the hundreds.

Step 2 Add the results to the tens and ones.

So,
$$128 + 300 = 428$$

10. Find 271 + 200.

Group 271 into hundreds, and tens and ones.



Step 1 Add the hundreds.

_____ + 200 = ____

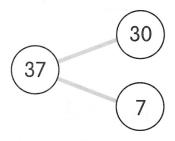
Step 2 Add the results to the tens and ones.

_____ + 71 = _____

Worksheet 4 Mental Subtraction

Subtract mentally.
Use number bonds to help you.

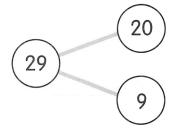
1. Find 37 – 6. Group 37 into tens and ones.



Step 1 Subtract the ones.

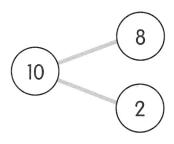
Step 2 Add the result to the tens.

- So, 37 6 =_____.
- **2**. 29 4 = _____



- Example —

Find 53 - 8.



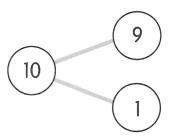
Subtracting 8 is the same as subtracting 10 and adding 2.



Subtract 10 from 53. Step 1

So,
$$53 - 8 = 45$$
.

Find 25 - 9. 3.



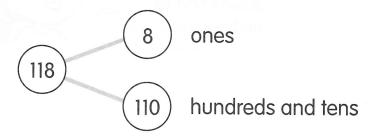
Step 1 Subtract 10 from 25. 25 - 10 =

Step 2 Add 1 to the result.

Example -

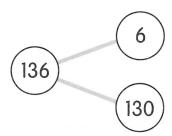
Find 118 – 4.

Group 118 into ones, and hundreds and tens.



So,
$$118 - 4 = 114$$

4. Find 136 – 2. Group 136 into ones, and hundreds and tens.



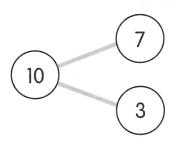
Step 1 Subtract the ones.

Step 2 Add the result to the hundreds and tens.

So,
$$136 - 2 =$$
_____.

Example -

Find 232 - 7.



Subtracting 7 is the same as subtracting 10 and adding 3.



Step 1 Subtract 10 from 232.

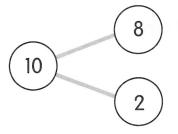
$$232 - 10 = 222$$

Step 2 Add 3 to the result.

$$222 + 3 = 225$$

So,
$$232 - 7 = 225$$
.

5. Find 256 - 8.

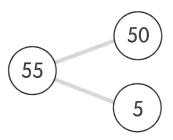


Step 1 Subtract 10 to 256.

Step 2 Add 2 to the result.

So, 256 - 8 =_____.

6. Find 55 - 30. Group 55 into tens and ones.

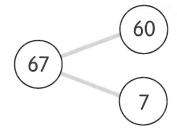


Subtract the tens. 50 - 30 =Step 1

Step 2 Add the result to the ones.

So,
$$55 - 30 =$$
_____.

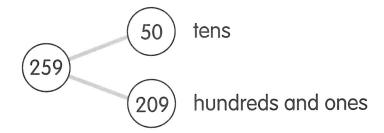
7. 67 - 10 = _____



Example -

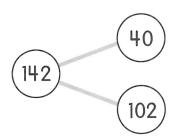
Find 259 - 20.

Group 259 into tens, and hundreds and ones.



- **Step 1** Subtract the tens.
- <u>50</u> 20 = <u>30</u>
- **Step 2** Add the result to the hundreds and ones.

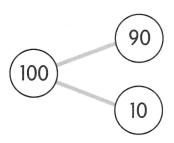
- So, 259 20 = 239.
- 8. Find 142 30.
 Group 142 into tens, and hundreds and ones.



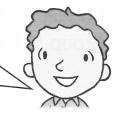
- **Step 1** Subtract the tens.
- _____ 30 = _____
- **Step 2** Add the result to the hundreds and ones.
- 102 + ____ = ____

Example —

Find 428 - 90.



Subtracting 90 is the same as subtracting 100 and adding 10.

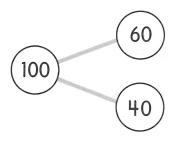


Step 1 Subtract 100 from 428.
$$428 - 100 = 328$$

So,
$$428 - 90 = 338$$
.

$$428 - 100 = 328$$

Find 182 - 60. 9.



Step 1 Subtract 100 from 182.

Step 2 Add 40 to the result.

So, 182 - 60 =

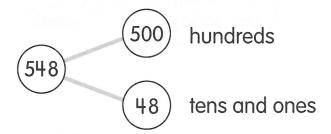
Subtract mentally.

Use number bonds to help you.

Example —

Find 548 – 300.

Group 548 into hundreds, and tens and ones.



Step 1 Subtract the hundreds.

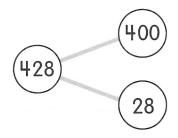
$$500 - 300 = 200$$

Step 2 Add the result to the tens and ones.

So, 548 - 300 = 248.

10. Find 428 – 200.

Group 428 into hundreds, and tens and ones.



- **Step 1** Subtract the hundreds.
- _____ 200 = ____
- **Step 2** Add the result to the tens and ones.
- _____ + 28 = _____

Worksheet 5 Rounding Numbers to Estimate

Circle a group of 10 \bigcirc . Estimate how many \bigcirc there are. Then count.

1. 0000000000 000000000 0000000000

Estimate: _____

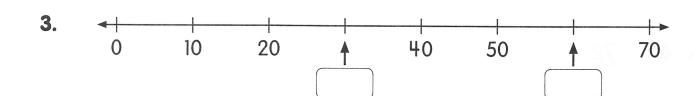
Count: _____

When you **estimate** the number of an item, you find out about how many there are.



Find the missing numbers on the number line.

2. 1 3 4 5 7 8

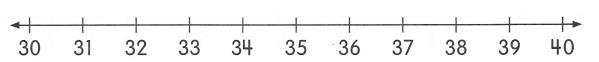


Mark each number with an X on the number line. Round each number to the nearest ten and circle it.

54 is about $\underline{50}$ when rounded to the nearest ten.

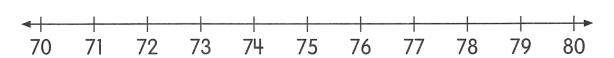
Look at the digit in the ones place. If it is 1, 2, 3, or 4, round to the ten that is <u>less</u>.

5. 31



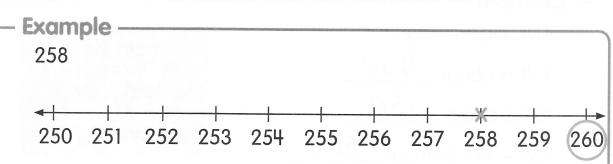
31 is about _____ when rounded to the nearest ten.

6. 72



72 is about _____ when rounded to the nearest ten.

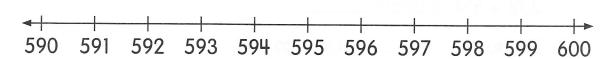
Mark each number with an X on the number line. Round each number to the nearest ten and circle it.



258 is about 260 when rounded to the nearest ten.

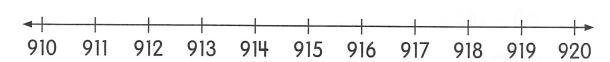
Look at the digit in the ones place. If it is 5, 6, 7, 8, or 9, round to the greater ten.

11. 597



597 is about _____ when rounded to the nearest ten.

12. 915



915 is about _____ when rounded to the nearest ten.

Find the missing numbers.

Example —

$$454 + 154 = 608$$

Because <u>600</u> is close to 608, the answer is reasonable.

Estimate the sum of 454 and 154 to check if the answer is reasonable.

Because _____ is close to 788,

the answer is reasonable.

Add.

Use rounding to check that your answers are reasonable.

Find the missing numbers.

Example ———

$$355 - 142 = 213$$

Estimate the difference between 355 and 142 to check if the answer is reasonable.

the answer is reasonable.

Subtract.

Use rounding to check that your answers are reasonable.

Find the sum or difference.

Then round each number to the nearest ten.
Estimate the sum or difference to check that the answers are reasonable.

19. 152 + 89 = _____

152 is about _____.

89 is about _____.

152 + 89 is about _____ + ____.

Is the answer reasonable?

20. 558 – 312 = _____

558 is about _____.

312 is about _____.

558 – 312 is about _____ – ____

Is the answer reasonable?



Worksheet 1 Coins and Bills

Write the value of each coin.

1.



2.



_____(

3.





Circle the coins that make the given value.

5. 65¢



















6. 80¢





















Look at the bills.

Color the \$1 bills blue, the \$5 bills green, the \$10 bills yellow, and the \$20 bills red.

7.

























Use your answers for Exercise 7. How many are there?

- **8.** _____\$1 bills
- **9.** \$5 bills
- **10.** \$10 bills
- **11.** \$20 bills

Write the value of each bill.

Example -



\$ 1

12.



\$____

13.



\$_____

Fill in the blanks.

Example -



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1 ten-dollar bill

2 five-dollar bills

14.



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1 twenty-dollar bill

2 _____ bills

Find the missing numbers.

Example -

Suzi has some bills.

How much does Suzi have?

Count on from the greatest value.







\$50



\$55

\$62







\$63



\$61

20, 40, 50, 55, 60, 61, 62, 63 dollars.



Suzi has \$_

15. Heather pays book.





for a chapter

The chapter book costs \$_

16. Peter pays





for a sweater.

The sweater costs \$_____.

Fill in the blanks.

Example -











1 one-dollar bill

4 quarters

Count on in 25s. 25, 50, 75, 100. \$1 = 100¢



17.



















1 one-dollar bill

10 _____

Circle the coins that make one dollar.

18.













19.



Name: _____

Date: _____

Complete.

Write less than, equal to, or more than.

- Example ----



25¢



35¢



40¢

40¢ is <u>less than</u> \$1.

20.



25¢









 \rightarrow 60¢ \rightarrow 70¢ \rightarrow 80¢ \rightarrow 90¢ \rightarrow 100¢



100¢ is _____\$1.

50¢

21.



25¢



50¢



75¢ →



100¢



125¢

125¢ is ______\$1.

22.



25¢ →



35¢ →



40¢



41¢

41¢ is _____\$1.

Count the money. How much money is there in all?

Example ———

Logan has a \$1 bill, a quarter, and a penny.



\$1





25¢ \$1.25



1¢

\$1.26

Logan has <u>one</u> dollar and <u>twenty-six</u> cents. Logan has \$ _____1.26



The decimal point helps you to see the number of cents and the number of dollars.

23. Hillary has a \$5 bill, 2 dimes, and a nickel.



\$5

\$5



10¢





10¢





5¢ \$5.25

35

Hillary has _____ dollars and ____ cents.

Hillary has \$_____.

Count the money.

Then write the amount in two ways.

- Example -

Neve has a \$5 bill and two \$1 bills.









You can write two zeros after the decimal point when there are no cents.

24. Ellie has a \$10 bill and two \$5 bills.







She has \$_____ or \$____.

25. Dakota has a \$20 bill and two \$1 bills.







She has \$_____ or \$____.

Count the money.

Then write the amount in two ways.

- Example -----

Lucius has a quarter and 2 dimes.







She has 45 ¢ or \$ 0.45

You can write a zero before the decimal point when there are no dollars.



26. Todd has 3 dimes and a penny.









He has ______¢ or \$_____.

27. Lucita has a quarter, 2 dimes and a penny.









She has _____¢ or \$_____