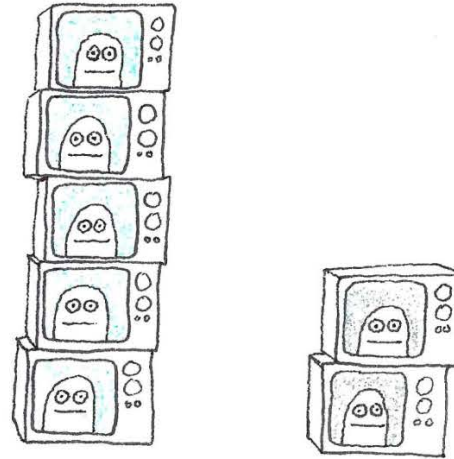
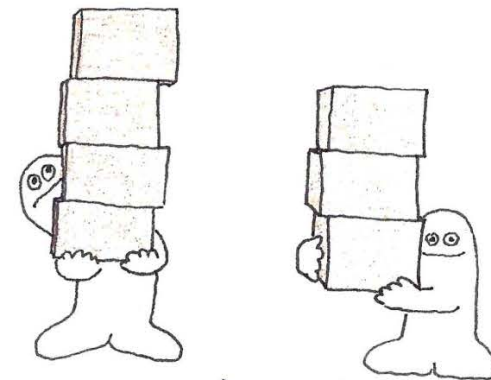


# Chapter 1

MORE OR LESS

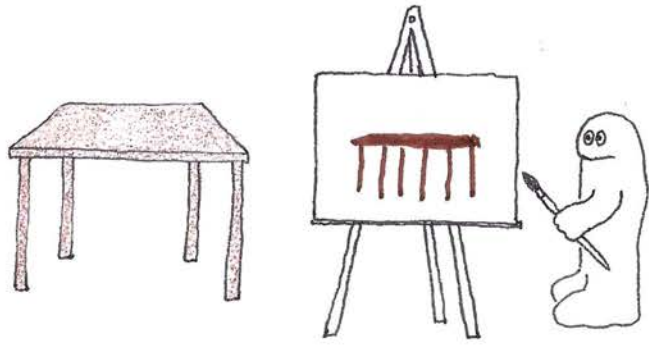


Which pile has more televisions?  
How many more are in the big pile?

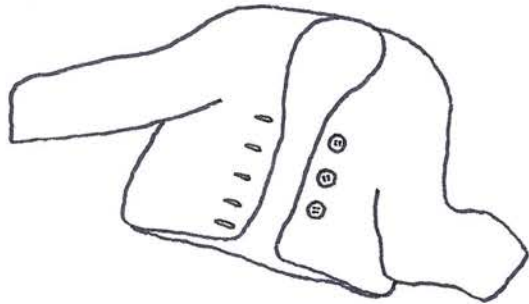


Which pile has fewer boxes? How  
many fewer are in the small pile?

## WHAT'S THE DIFFERENCE?

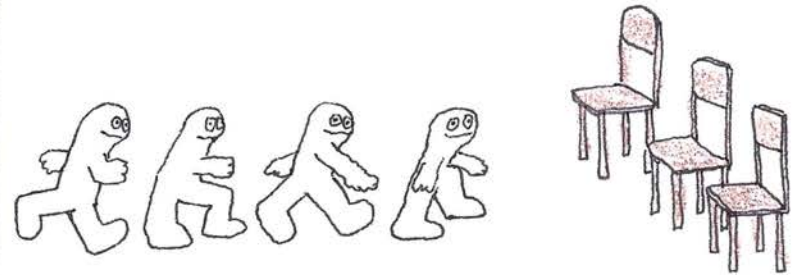


How many extra legs have been put in the painting?



Look closely at this sweater. Then guess how many buttons have been lost.

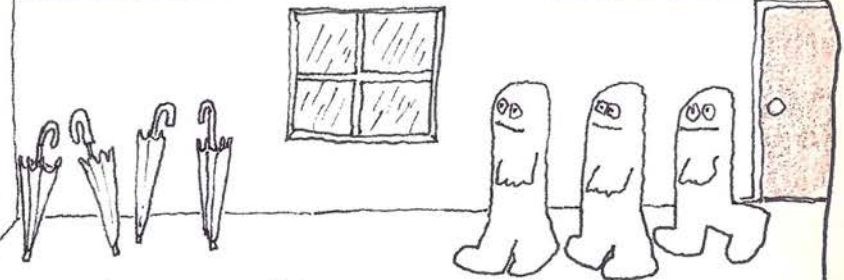
## MORE DIFFERENCES



How many more chairs are needed?



Are there enough parking spaces? How many cars will have to go away?



If each person takes an umbrella, how many umbrellas will be left?

## PENCIL AND PAPER

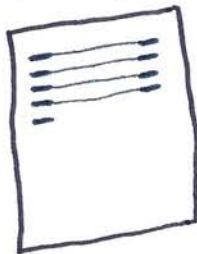
Use a pencil and a sheet of paper.  
Draw 5 short lines on the left side  
of the paper like this:



Then draw 4 lines on the right side  
of the paper like this:



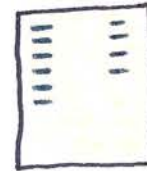
Now connect the left lines to the right  
lines just like this:



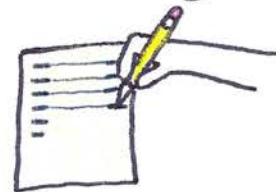
How many extra lines were on the left side?

## TWO PROBLEMS

Draw 6 lines on the left side of a sheet  
of paper. Draw 4 lines on the right:



Then connect the lines until you run  
out of lines on the right side.



How many extra lines are on the left side?

Draw 8 lines on the left side of a sheet  
of paper. Draw 5 lines on the right.  
Then connect the lines.

How many extra lines are on the left side?

## LEARN THE CODE

Look at each code, then read what it means.  
 Guess what words are under the lemon.  
 (But don't do what the words tell you to do — that's what the next page is all about.)

THE CODE:

WHAT THE CODE MEANS:

$$\begin{array}{r} 6 \\ -5 \\ \hline \end{array}$$

Draw 6 lines on the left side.  
 Draw 5 lines on the right side.

$$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$$

Draw 8 lines on the left side.  
 Draw 6 lines on the right side.

$$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$$

Draw 7 lines on the left side.  
 Draw 4 lines on the right side.

$$\begin{array}{r} 10 \\ -4 \\ \hline \end{array}$$

Draw 10 lines on the left side.  
 Draw 4 lines on the right side.



## USE THE CODE

Figure out what each code means, then do what it tells you to do. Connect the lines — how many extra lines are on the left side?

1. 
$$\begin{array}{r} 6 \\ -5 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 10 \\ -4 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 9 \\ -5 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 8 \\ -3 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 11 \\ -8 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 7 \\ -6 \\ \hline \end{array}$$

# Chapter 2

## COVERING MONEY

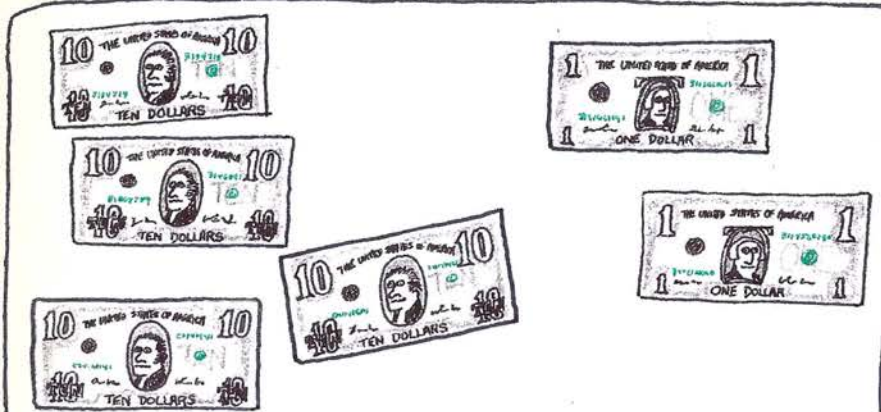


How much money is in this picture?  
 Try to cover up \$10 with your hand — how  
 much money can you see now?



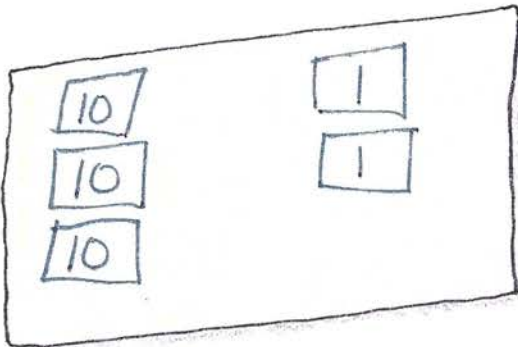
Try to cover \$12 — how much money  
 is left?

## MORE COVERING



Can you cover \$10? \$2? \$11? \$22?  
Do you think there is any way to cover \$3?

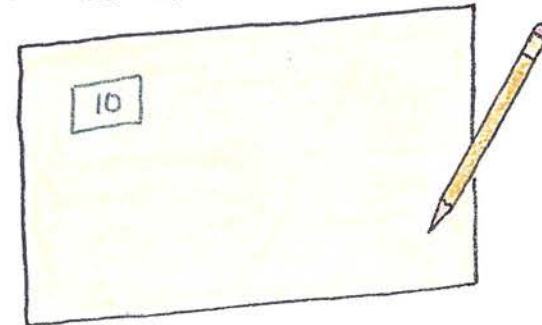
On a piece of paper draw \$32 just like this:



Which amounts could you cover: \$10? \$30?  
\$12? \$4? \$31? \$23? \$2? \$17?

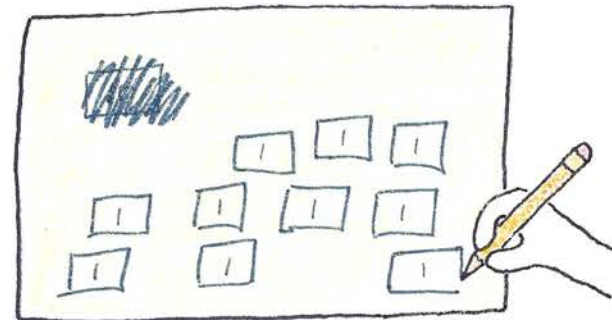
## THE HARD WAY

Draw \$10 like this:



Do you think you can cover \$4 in your picture?

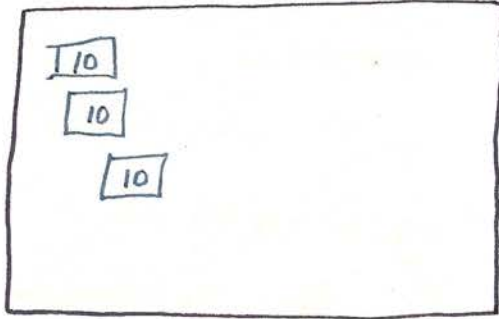
Now cross off the \$10 and draw it again, but this time draw it the hard way like this:



Do you think you can cover \$4 now?

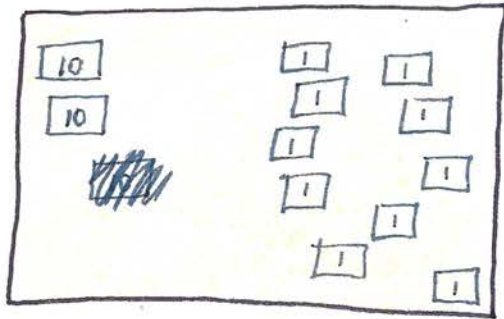
## BREAKING A TEN DOLLAR BILL

Draw \$30 like this:



Do you think you can cover \$6?

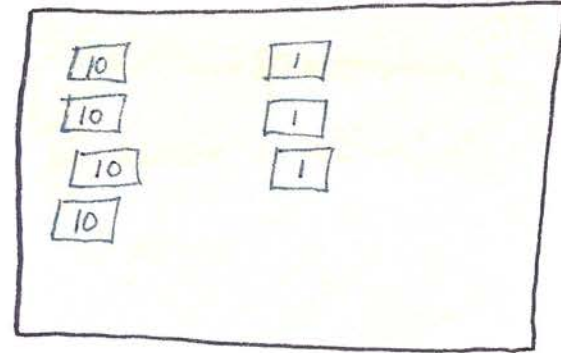
Now cross off exactly \$10 and draw it again, but this time draw the \$10 the hard way like this:



Do you think you can cover \$6 now?

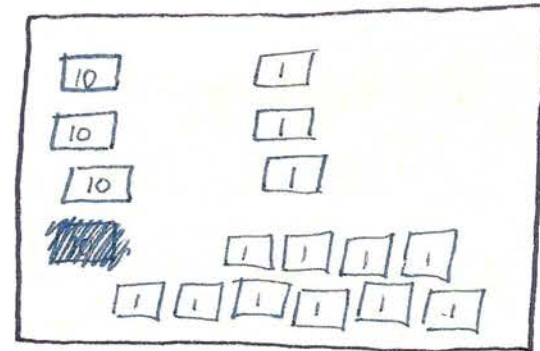
## TAKING 8 AWAY FROM 43

Draw \$43 like this:



Do you think you can cover \$8?

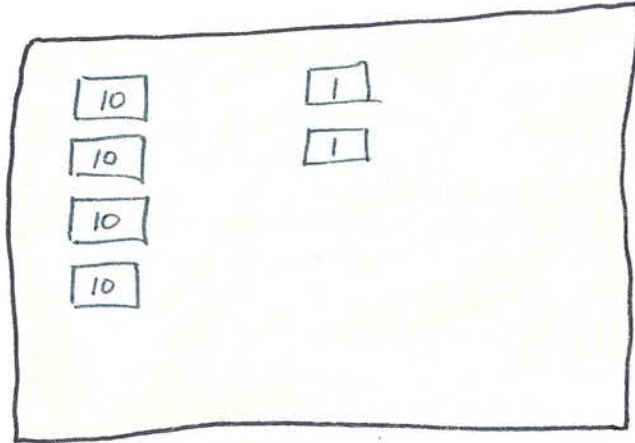
Now cross off \$10 and draw it again — but this time draw the \$10 the hard way:



Cover \$8 now — how much money is left?

## TAKING 26 AWAY FROM 42

Draw 4  $\boxed{10}$ 's and 2  $\boxed{1}$ 's like this:

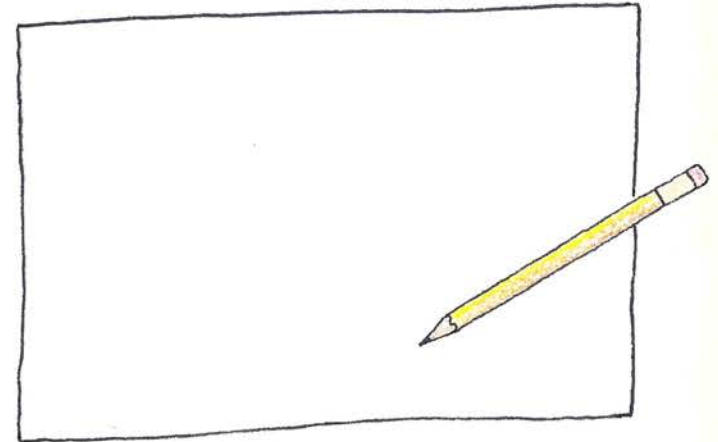


Do you think you can cover \$26?

Cross off \$10 and draw it again the hard way.

Try to cover \$26 now — how much is left?

## TAKING 28 AWAY FROM 52



Draw 5  $\boxed{10}$ 's and 2  $\boxed{1}$ 's.

Try to cover \$28. If you can't cover \$28, then change the picture — cross off a  $\boxed{10}$  and draw ten new  $\boxed{1}$ 's.

Now try again to cover \$28. How much is left?



## USE 2 PIECES OF PAPER

There are 2 problems on this page. In the first problem you will not have to change the picture to do the covering. In the second problem you will have to change the picture — cross off a  $\boxed{10}$  and draw ten new  $\boxed{1}$ 's.

Draw 5  $\boxed{10}$ 's and 4  $\boxed{1}$ 's.  
Then cover 24 dollars.

How much is left?

Draw 2  $\boxed{10}$ 's and 2  $\boxed{1}$ 's.  
Cover 7 dollars.

How much is left?

## THREE PROBLEMS

Use a new piece of paper for each problem. In two of the problems you can do the covering without changing the pictures. In the other problem you will need to change the picture — cross off a  $\boxed{10}$  and draw ten new  $\boxed{1}$ 's.

Draw 4  $\boxed{10}$ 's and 5  $\boxed{1}$ 's.  
Cover 24 dollars.  
How much is left?

Draw 2  $\boxed{10}$ 's and 6  $\boxed{1}$ 's.  
Cover 21 dollars.  
How much is left?

Draw 4  $\boxed{10}$ 's and 4  $\boxed{1}$ 's.  
Cover 6 dollars.  
How much is left?

## LEARN THE CODE

Look at each code, then read what it means.  
 Guess what words are under the tea bag.  
 (But don't do what the words tell you to do — that's what the next page is all about.)


THE CODE:

WHAT THE CODE MEANS:

$$\begin{array}{r} 54 \\ -31 \\ \hline \end{array}$$

Draw 5  $\boxed{10}$ 's and 4  $\boxed{1}$ 's.  
 Cover 31 dollars.

$$\begin{array}{r} 41 \\ -5 \\ \hline \end{array}$$

Draw 4  $\boxed{10}$ 's and 1  $\boxed{1}$ .  
 Cover  dollars.

$$\begin{array}{r} 34 \\ -23 \\ \hline \end{array}$$

Draw 3  $\boxed{10}$ 's and 4  $\boxed{1}$ 's.  
 Co

$$\begin{array}{r} 24 \\ -9 \\ \hline \end{array}$$

Draw  $\boxed{20}$  and 4  $\boxed{1}$ 's.  
 Cover  dollars.

## USE THE CODE

Cover the money the code says to cover —  
 how many dollars are left?

(In some of the problems you will need to  
 change the picture before you can do the  
 covering — cross off a  $\boxed{10}$  and draw ten new  $\boxed{1}$ 's.)

1. 
$$\begin{array}{r} 54 \\ -31 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 41 \\ -5 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 34 \\ -23 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 24 \\ -9 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 51 \\ -24 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 32 \\ -22 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 62 \\ -43 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 46 \\ -33 \\ \hline \end{array}$$

## WHICH PROBLEM IS HARDER?

Do the problems below the same way you did the problems on the last page:

$$\begin{array}{r} 53 \\ -25 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ -22 \\ \hline \end{array}$$

Which problem had a picture that you needed to change before doing the covering?  
Which problem had a picture that you did not need to change?

## FIND THE EASY PROBLEM

Do not do the problems on this page.  
Just try to guess —

In which problem could you do the covering without changing the picture?

$$\begin{array}{r} 34 \\ -27 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ -28 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ -23 \\ \hline \end{array}$$

## FIND 3 EASY PROBLEMS

Do not do the problems on this page.

Three of these problems have pictures that you would not need to change — try to guess which problems they are:

$$\begin{array}{r} 44 \\ -29 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ -28 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ -22 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ -26 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ -23 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ -24 \\ \hline \end{array}$$

## EASY OR HARD?

Do not do the problems on this page. Just look at each problem and try to guess whether or not you would need to change its picture.

$$1. \begin{array}{r} 64 \\ -33 \\ \hline \end{array}$$

$$2. \begin{array}{r} 64 \\ -38 \\ \hline \end{array}$$

$$3. \begin{array}{r} 64 \\ -32 \\ \hline \end{array}$$

$$4. \begin{array}{r} 64 \\ -37 \\ \hline \end{array}$$

$$5. \begin{array}{r} 64 \\ -39 \\ \hline \end{array}$$

$$6. \begin{array}{r} 64 \\ -34 \\ \hline \end{array}$$

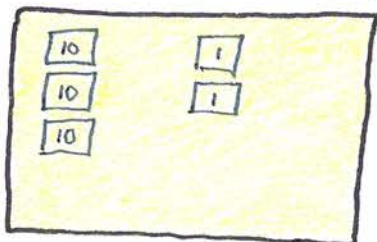
$$7. \begin{array}{r} 64 \\ -30 \\ \hline \end{array}$$

$$8. \begin{array}{r} 64 \\ -36 \\ \hline \end{array}$$

$$9. \begin{array}{r} 64 \\ -31 \\ \hline \end{array}$$

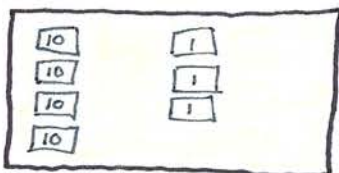
## A CLOSER LOOK AT CHANGES

Copy this picture on a piece of paper:



Then cross off a  $\boxed{10}$  and draw ten new  $\boxed{1}$ 's.  
Look at your picture now — how many  $\boxed{10}$ 's are still in the picture? How many  $\boxed{1}$ 's can you find in the picture?

Do not use pencil and paper — just pretend.  
Pretend that you made a copy of this picture:



Next pretend that you crossed off a  $\boxed{10}$  and drew ten new  $\boxed{1}$ 's. How many  $\boxed{10}$ 's would be left then? How many  $\boxed{1}$ 's would be in the picture?

## CHANGING A MAKE-BELIEVE PICTURE

Pretend that you are going to do what this code says to do:

$$\begin{array}{r} 83 \\ - 66 \\ \hline \end{array}$$

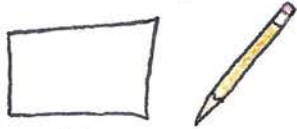
Do you think you will need to change the picture before you do the covering?

Guess how many  $\boxed{10}$ 's will be left when you cross off one of the 8  $\boxed{10}$ 's.

Guess how many  $\boxed{1}$ 's there will be right after you draw ten new  $\boxed{1}$ 's.

## HOW TO CHANGE A BAD CODE

Use a pencil and a piece of paper.



Write this problem on your paper:

$$\begin{array}{r} 92 \\ -76 \\ \hline \end{array}$$

How many  $\boxed{10}$ 's does the code say to draw?

How many  $\boxed{10}$ 's would be left if you crossed off one of the 9  $\boxed{10}$ 's? — On your paper, make a line through the 9 and write 8 just like this:

$$\begin{array}{r} 8 \\ \cancel{9}2 \\ -76 \\ \hline \end{array}$$

How many  $\boxed{1}$ 's would there be if you drew ten new  $\boxed{1}$ 's? — On your paper, make a line through the 2 and write 12 just like this:

$$\begin{array}{r} 8 \quad 12 \\ \cancel{9} \cancel{2} \\ -76 \\ \hline \end{array}$$

## FINDING AND CHANGING A BAD CODE

Write these 3 problems on a piece of paper:

$$\begin{array}{r} 92 \\ -41 \\ \hline \end{array} \quad \begin{array}{r} 92 \\ -45 \\ \hline \end{array} \quad \begin{array}{r} 92 \\ -40 \\ \hline \end{array}$$

One of the 3 problems has a picture that you would need to change — guess which problem it is. Then change that code like this:

$$\begin{array}{r} 8 \quad 12 \\ \cancel{9} \cancel{2} \\ -41 \\ \hline \end{array}$$


Leave the other two problems alone — they do not have pictures that you would need to change.

## CHANGING MORE BAD CODES

Copy these 3 problems on a piece of paper:

$$\begin{array}{r} 46 \\ -22 \\ \hline \end{array} \quad \begin{array}{r} 46 \\ -24 \\ \hline \end{array} \quad \begin{array}{r} 46 \\ -28 \\ \hline \end{array}$$

Just one of the codes needs to be changed.  
Guess which code needs to be changed, then  
change it like this:

$$\begin{array}{r} 3 \quad 16 \\ 46 \\ -2 \\ \hline \end{array}$$


Copy these 3 problems on a piece of paper:

$$\begin{array}{r} 85 \\ -42 \\ \hline \end{array} \quad \begin{array}{r} 85 \\ -49 \\ \hline \end{array} \quad \begin{array}{r} 85 \\ -44 \\ \hline \end{array}$$

Just one of these codes needs to be changed.  
Guess which code needs to be changed, then  
try to change it.

## MORE OF THE SAME

Copy these 2 problems on a piece of paper:

$$\begin{array}{r} 53 \\ -38 \\ \hline \end{array} \quad \begin{array}{r} 50 \\ -27 \\ \hline \end{array}$$

Both of these codes need to be  
changed. See if you can change them.

## PRACTICE FINDING AND CHANGING

Copy these 6 problems on a piece of paper:

$\begin{array}{r} 77 \\ -23 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ -38 \\ \hline \end{array}$
$\begin{array}{r} 85 \\ -26 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ -21 \\ \hline \end{array}$
$\begin{array}{r} 99 \\ -44 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ -37 \\ \hline \end{array}$

3 of these codes need to be changed.  
Guess which codes need to be changed,  
then try to change them.

## DOING THE COVERING IN YOUR HEAD

This code has already been changed:

$$\begin{array}{r} 5 \quad 11 \\ \cancel{6} \quad \cancel{1} \\ - 32 \\ \hline \end{array}$$

Now the code says that there are 5  $\boxed{10}$ 's —  
how many  $\boxed{10}$ 's would be left if you  
covered up 3 of the 5  $\boxed{10}$ 's?

The code says that there are 11  $\boxed{1}$ 's — how  
many  $\boxed{1}$ 's would be left if you  
covered up 2 of the 11  $\boxed{1}$ 's?



## MORE COVERING IN YOUR HEAD

This code does not need to be changed:

$$\begin{array}{r} 58 \\ -46 \\ \hline \end{array}$$

The code says there are 5  $\boxed{10}$ 's and 8  $\boxed{1}$ 's.

How many  $\boxed{10}$ 's would be left if you covered up 4  $\boxed{10}$ 's?

How many  $\boxed{1}$ 's would be left if you covered up 6  $\boxed{1}$ 's?

This code has already been changed:

$$\begin{array}{r} \overset{6}{7} \overset{10}{} \\ -29 \\ \hline \end{array}$$

How many  $\boxed{10}$ 's would be left if you covered up 2 of the 6  $\boxed{10}$ 's?

How many  $\boxed{1}$ 's would be left if you covered up 9  $\boxed{1}$ 's?

## WRITING ANSWERS

Copy this code on a piece of paper:

$$\begin{array}{r} 57 \\ -21 \\ \hline \end{array}$$

Does the code need to be changed?

Try to guess how many  $\boxed{10}$ 's and how many  $\boxed{1}$ 's would be left if you covered up 21 dollars. Write your answers under the line like this:

$$\begin{array}{r} 57 \\ -21 \\ \hline 36 \end{array}$$

## COMPLETE SUBTRACTION WITHOUT PICTURES

Copy these 2 problems on a piece of paper:

$\begin{array}{r} 70 \\ -52 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ -21 \\ \hline \end{array}$
----------------------------------------------------	----------------------------------------------------

One of the codes needs to be changed.  
Guess which code needs to be changed,  
then try to change it.

Next try to get answers for both problems —  
guess how many  $\boxed{10}$ 's and  $\boxed{1}$ 's will be  
left in each problem after the covering. Write  
your answers under the lines.

## SUBTRACTION PRACTICE

Copy these 8 problems on a piece of paper.  
Change the codes that need to be changed.  
Then try to get answers for all 8 problems —  
write your answers under the lines.

1. $\begin{array}{r} 38 \\ -22 \\ \hline \end{array}$	2. $\begin{array}{r} 51 \\ -22 \\ \hline \end{array}$
3. $\begin{array}{r} 66 \\ -22 \\ \hline \end{array}$	4. $\begin{array}{r} 71 \\ -49 \\ \hline \end{array}$
5. $\begin{array}{r} 50 \\ -28 \\ \hline \end{array}$	6. $\begin{array}{r} 87 \\ -61 \\ \hline \end{array}$
7. $\begin{array}{r} 72 \\ -36 \\ \hline \end{array}$	8. $\begin{array}{r} 99 \\ -77 \\ \hline \end{array}$