

SMILE WORKCARDS

Subtraction

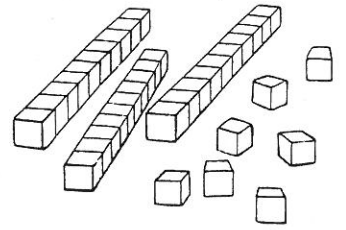
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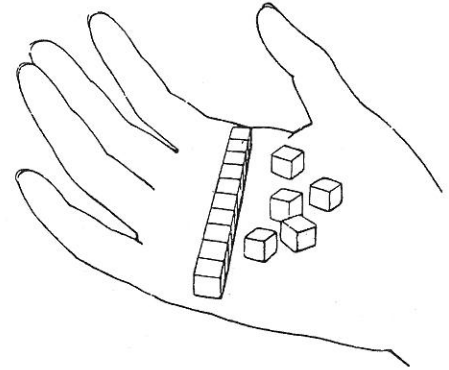
SUBTRACTING

$$\begin{array}{r}
 37 \\
 -15 \\
 \hline
 22
 \end{array}$$

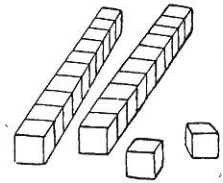
Make 37



take away 15



and you have 22 left



Turn over

Copy and complete these.
Use the base ten apparatus.

1)
$$\begin{array}{r}
 27 \\
 -14 \\
 \hline
 \square\square
 \end{array}$$

2)
$$\begin{array}{r}
 34 \\
 -13 \\
 \hline
 \square\square
 \end{array}$$

3)
$$\begin{array}{r}
 46 \\
 -35 \\
 \hline
 \square\square
 \end{array}$$

4)
$$\begin{array}{r}
 79 \\
 -74 \\
 \hline
 \square\square
 \end{array}$$

5)
$$\begin{array}{r}
 37 \\
 -4 \\
 \hline
 \square\square
 \end{array}$$

6)
$$\begin{array}{r}
 28 \\
 -18 \\
 \hline
 \square\square
 \end{array}$$

7)
$$\begin{array}{r}
 34 \\
 -10 \\
 \hline
 \square\square
 \end{array}$$

8)
$$\begin{array}{r}
 125 \\
 -22 \\
 \hline
 \square\square\square
 \end{array}$$

9)
$$\begin{array}{r}
 446 \\
 -125 \\
 \hline
 \square\square\square
 \end{array}$$

10)
$$\begin{array}{r}
 637 \\
 -402 \\
 \hline
 \square\square\square
 \end{array}$$

You will need a pack of playing cards.

Differences Game

This is a game for two or more.

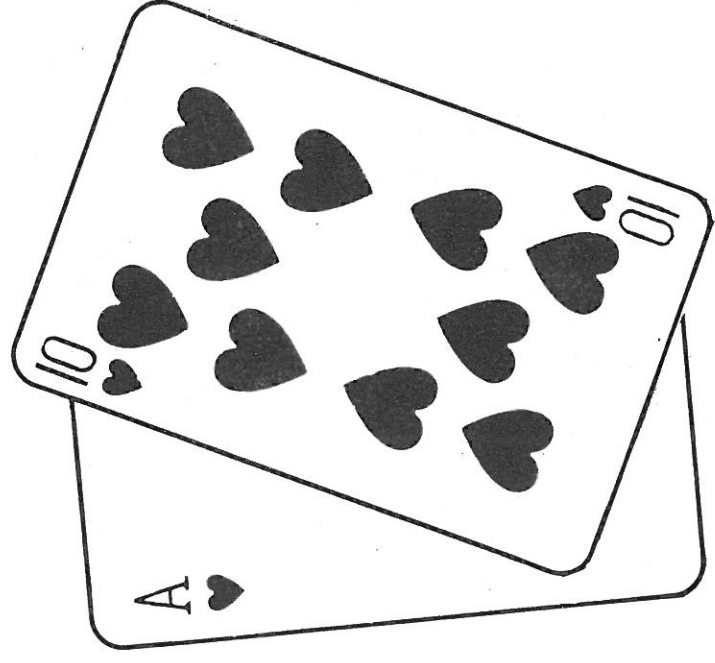
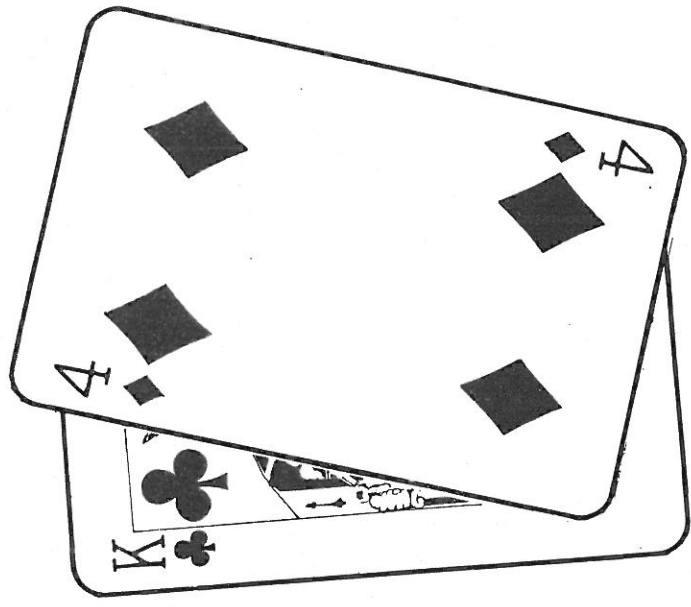
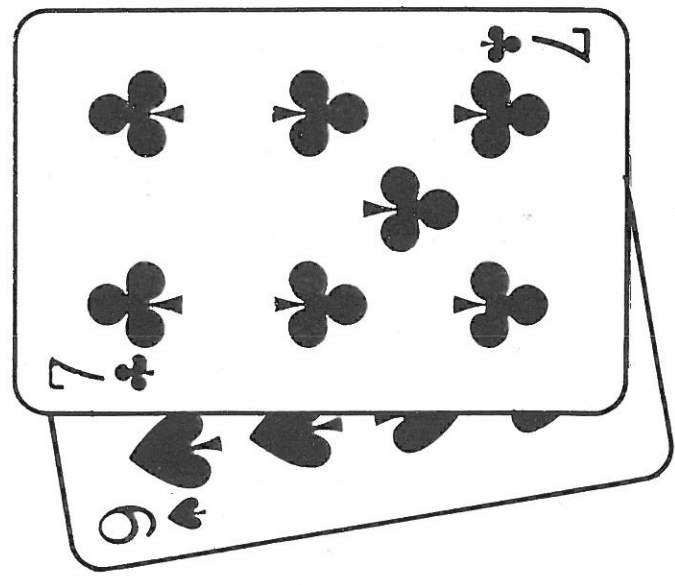
Deal 6 cards to each player.

Sort your cards into pairs and find the differences.

Add up your score.

example:

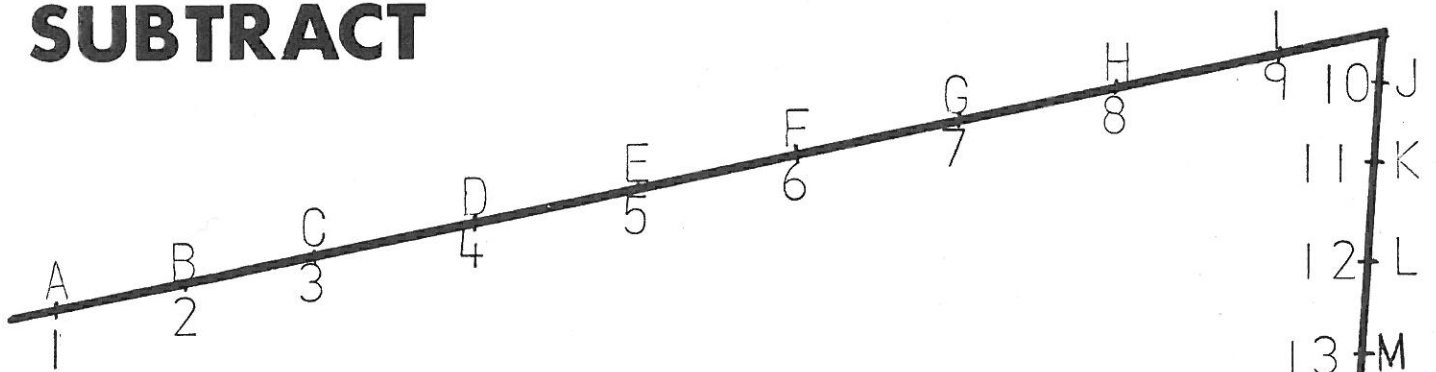
The first to reach **100** wins!



$$2 + 6 + 9 = 17$$

Here's another way to play first to 100 loses!!

SUBTRACT



Look:-

| | | | | | | | |
|---|---|---|--|--|---|---|---|
| $\begin{array}{r} 20 \\ - 1 \\ \hline 19 \end{array}$ | $\begin{array}{r} 30 \\ - 9 \\ \hline 21 \end{array}$ | $\begin{array}{r} 57 \\ - 55 \\ \hline 2 \end{array}$ | $\begin{array}{r} 30 \\ - 10 \\ \hline 20 \end{array}$ | $\begin{array}{r} 35 \\ - 17 \\ \hline 18 \end{array}$ | $\begin{array}{r} 50 \\ - 49 \\ \hline 1 \end{array}$ | $\begin{array}{r} 63 \\ - 60 \\ \hline 3 \end{array}$ | $\begin{array}{r} 21 \\ - 1 \\ \hline 20 \end{array}$ |
| S | U | B | T | R | A | C | T |

De-code these:-

(1)

| | | | |
|--|--|--|--|
| $\begin{array}{r} 56 \\ - 48 \\ \hline \blacksquare \end{array}$ | $\begin{array}{r} 42 \\ - 37 \\ \hline \blacksquare \end{array}$ | $\begin{array}{r} 24 \\ - 12 \\ \hline \blacksquare \end{array}$ | $\begin{array}{r} 43 \\ - 27 \\ \hline \blacksquare \end{array}$ |
|--|--|--|--|

(2)

| | | | | | | |
|--|--|--|--|--|---|--|
| $\begin{array}{r} 70 \\ - 69 \\ \hline \blacksquare \end{array}$ | $\begin{array}{r} 52 \\ - 34 \\ \hline \blacksquare \end{array}$ | $\begin{array}{r} 92 \\ - 73 \\ \hline \blacksquare \end{array}$ | $\begin{array}{r} 46 \\ - 41 \\ \hline \blacksquare \end{array}$ | $\begin{array}{r} 51 \\ - 37 \\ \hline \blacksquare \end{array}$ | $\begin{array}{r} 100 \\ - 99 \\ \hline \blacksquare \end{array}$ | $\begin{array}{r} 48 \\ - 36 \\ \hline \blacksquare \end{array}$ |
|--|--|--|--|--|---|--|

(3) Make up one for a friend.

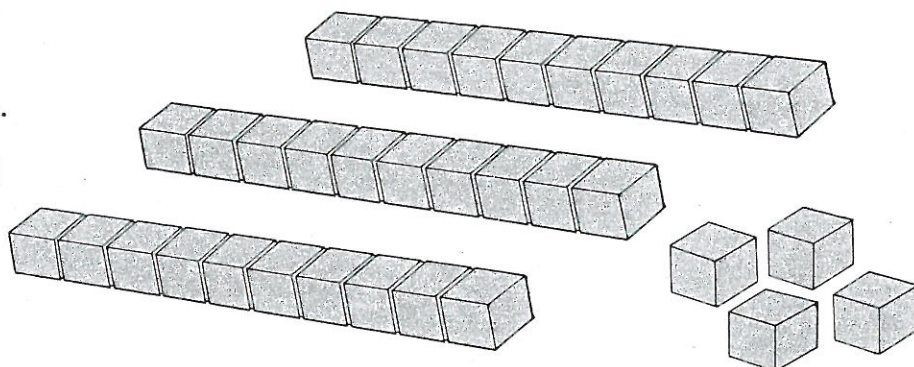
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

SUBTRACTION

$34 - 18 = ?$ Make 34.

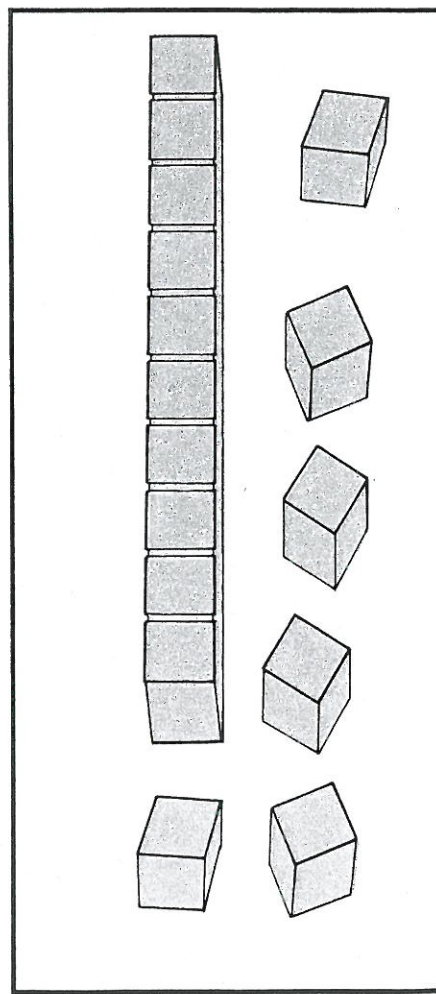
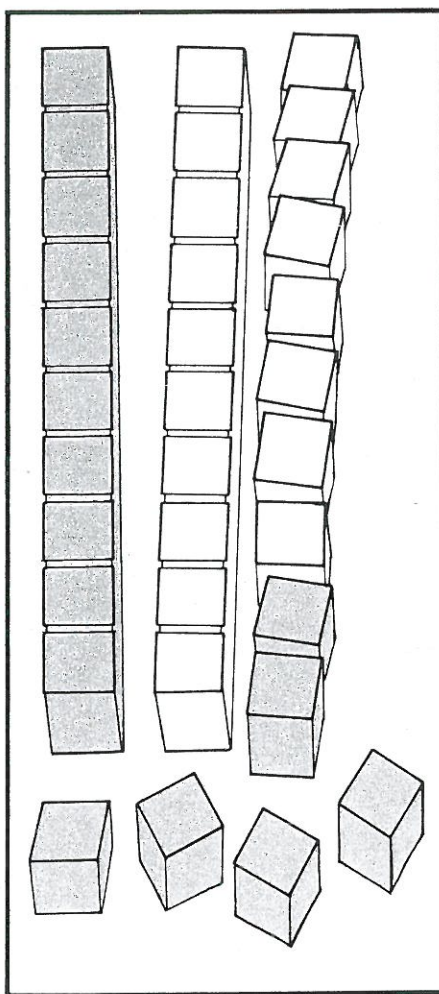
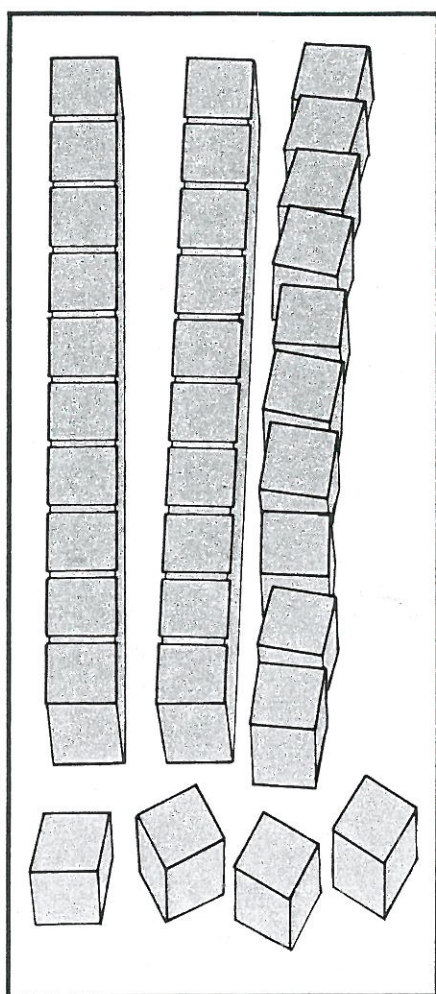
Take away 18. You can't!



Change one of the tens into units

Now take away 18

... and you have 16 left.



$34 - 18 = 16$

Use the base ten apparatus to do these:

- | | | | | |
|--------------|--------------|--------------|----------------|---------------|
| 1) $27 - 19$ | 3) $24 - 17$ | 5) $74 - 47$ | 7) $92 - 75$ | 9) $143 - 56$ |
| 2) $36 - 18$ | 4) $46 - 27$ | 6) $63 - 36$ | 8) $112 - 108$ | |



Carry on Subtracting

Can you find $63-47$ without apparatus?

$$\begin{array}{r} \text{T} \quad \text{U} \\ 6 \quad 3 \\ -4 \quad 7 \\ \hline \end{array}$$

7 units from 3
can't be done

$$\begin{array}{r} \text{}^5 \text{}^1 \\ \cancel{6} \quad 3 \\ -4 \quad 7 \\ \hline \end{array}$$

Change 1 of the tens into units.
That makes 5 tens and 13 units.

$$\begin{array}{r} \text{}^5 \text{}^1 \\ \cancel{6} \quad 3 \\ -4 \quad 7 \\ \hline 6 \end{array}$$

7 from 13 — now
you can do it!

$$\begin{array}{r} \text{}^5 \text{}^1 \\ \cancel{6} \quad 3 \\ -4 \quad 7 \\ \hline 1 \quad 6 \end{array}$$

4 tens from 5
leaves 1.

Try these without apparatus:

$$\begin{array}{r} 66 \\ -18 \\ \hline \end{array}$$

$$\begin{array}{r} 91 \\ -72 \\ \hline \end{array}$$

$$\begin{array}{r} 192 \\ -127 \\ \hline \end{array}$$

$$\begin{array}{r} 125 \\ -53 \\ \hline \end{array}$$

$$\begin{array}{r} 461 \\ -295 \\ \hline \end{array}$$

$$\begin{array}{r} 703 \\ -25 \\ \hline \end{array}$$

If you need more practice make up some of your own.

Subzero

– a game for two players

Starting with 123, players take turns to subtract numbers. The winner is the first player to reach zero.

| | | |
|--|---|--|
| I'LL TAKE AWAY 88... | $\begin{array}{r} 123 \\ -11 \\ \hline \end{array}$ | YOU CAN'T USE 88. THERE ISN'T AN 8 IN '123'. |
| OK. I'LL SUBTRACT 11. | $\begin{array}{r} 112 \\ -22 \\ \hline \end{array}$ | I'LL SUBTRACT 22. |
| I DON'T HAVE ANY CHOICE. IT'S GOT TO BE 9. | $\begin{array}{r} 90 \\ -9 \\ \hline \end{array}$ | |
| | <p style="text-align: center;">• • •</p> | |

The first player could choose 33 or 2 or 111 or ... The numbers which are subtracted must be made from **one** of the digits in the last answer.

You are not allowed to subtract 0.

Play a few games. Try starting with different numbers.