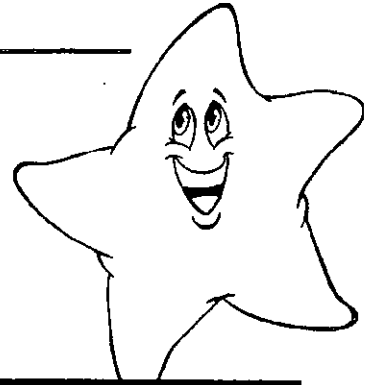
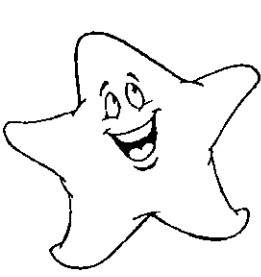


All the numbers from 1 to 100.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Name: _____



1									
									100

This is an example of the way we show regrouping when adding 2 digit numbers.

$$\begin{array}{r} 37 \text{ ¢} \\ + 23 \text{ ¢} \\ \hline 60 \text{ ¢} \end{array}$$

$$\begin{array}{r} 56 \text{ ¢} \\ + 36 \text{ ¢} \\ \hline 92 \text{ ¢} \end{array}$$

Add the pennies first.

Can we trade for a dime?

Write the 1 at the bottom of the dimes column.

How many pennies are left?

Write that number in the pennies column.

Use the dimes/pennies game mat to solve these problems.

$$\begin{array}{r} 43 \text{ ¢} \\ + 25 \text{ ¢} \\ \hline \end{array}$$

$$\begin{array}{r} 49 \text{ ¢} \\ + 37 \text{ ¢} \\ \hline \end{array}$$

$$\begin{array}{r} 28 \text{ ¢} \\ + 33 \text{ ¢} \\ \hline \end{array}$$

$$\begin{array}{r} 28 \text{ ¢} \\ + 13 \text{ ¢} \\ \hline \end{array}$$

$$\begin{array}{r} 8 \text{ ¢} \\ + 45 \text{ ¢} \\ \hline \end{array}$$

Add with Regrouping

Add the ones

$$\begin{array}{r} 36 \\ + 26 \\ \hline \end{array}$$

$$6 + 6 = 12$$

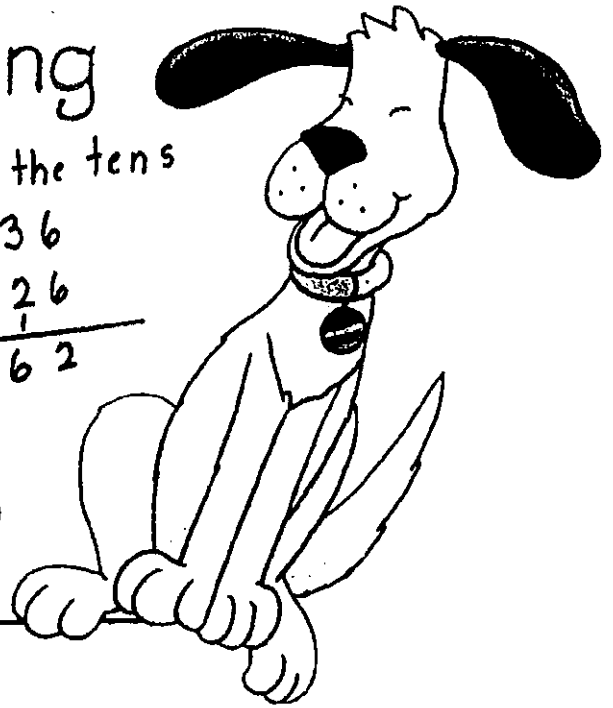
Regroup

$$\begin{array}{r} 36 \\ + 26 \\ \hline 12 \\ \hline 2 \end{array}$$

Add the tens

$$\begin{array}{r} 36 \\ + 26 \\ \hline 62 \end{array}$$

12 ones = 1 ten 2 ones



Add. Regroup if needed.

1.
$$\begin{array}{r} 29 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ + 28 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 17 \\ + 43 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ + 29 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ + 17 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ + 39 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 24 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 56 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ + 15 \\ \hline \end{array}$$

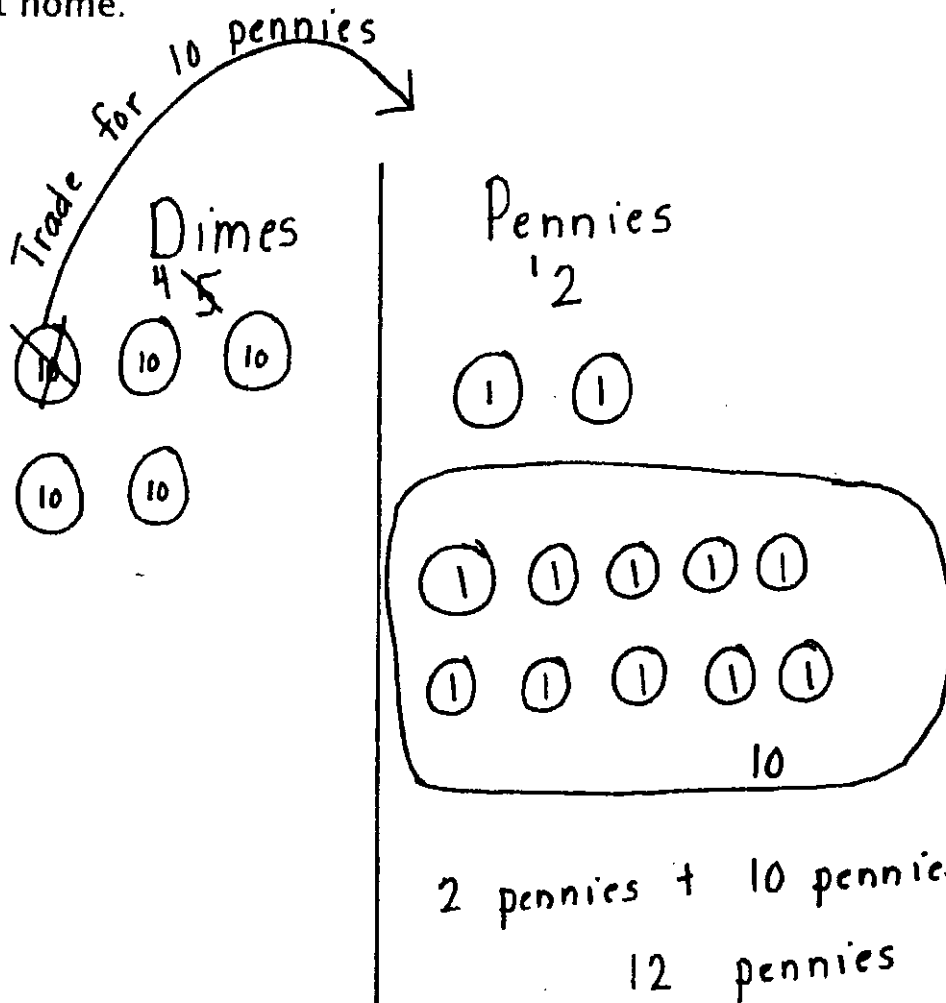


Subtraction with Regrouping

This is a concept that takes more time to master. We have worked on this in class by counting coins and then by drawing coins to illustrate the process. This is a guide that may help your child at home.

Example:

$$\begin{array}{r}
 \cancel{5} \text{ D} \quad \text{P} \\
 \phantom{\cancel{5}} 2 \text{ } \text{¢} \\
 3 \text{ } \text{¢} \\
 \hline
 1 \text{ } \text{¢}
 \end{array}$$



1. Look at the pennies side. Can you subtract? $2 - 6 =$
2. Trade 1 dime for 10 pennies.
3. Change the numbers to show 4 dimes 12 pennies
4. Subtract

Subtract with Regrouping

Subtract the **ones**.

$$\begin{array}{r} 52 \\ - 28 \\ \hline \end{array}$$

↑
You can not take 8 away from 2. So, regroup the 5 tens to have more ones.

Regroup

$$\begin{array}{r} 4 \ 12 \\ \cancel{5} \ \cancel{2} \leftarrow \\ - 28 \\ \hline \end{array}$$

52 = 5 tens 2 ones
= 4 tens 12 ones

Subtract **ones**.

$$\begin{array}{r} 4 \ 12 \\ \cancel{5} \ \cancel{2} \\ - 28 \\ \hline 4 \end{array}$$

12 - 8 = 4

Subtract **tens**.

$$\begin{array}{r} 4 \ 12 \\ \cancel{5} \ \cancel{2} \\ - 28 \\ \hline 24 \end{array}$$

4 - 2 = 2



Subtract. Regroup if needed. Write the **difference**.

1.
$$\begin{array}{r} 62 \\ - 38 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ - 24 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ - 27 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ - 45 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 50 \\ - 25 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ - 65 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ - 38 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ - 49 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 46 \\ - 17 \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ - 21 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ - 49 \\ \hline \end{array}$$

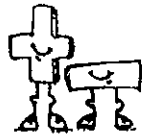
$$\begin{array}{r} 84 \\ - 66 \\ \hline \end{array}$$

Check your answers by adding.



Addition and Subtraction 13-18: Mixed Practice

Solve each problem below.



1. $\begin{array}{r} 1 \\ +8 \\ \hline 9 \end{array}$ $\begin{array}{r} 16 \\ -6 \\ \hline \end{array}$ $\begin{array}{r} 15 \\ -0 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ +11 \\ \hline \end{array}$ $\begin{array}{r} 15 \\ +1 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ +3 \\ \hline \end{array}$ $\begin{array}{r} 16 \\ -10 \\ \hline \end{array}$

2. $\begin{array}{r} 5 \\ +8 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ +11 \\ \hline \end{array}$ $\begin{array}{r} 18 \\ -9 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ +5 \\ \hline \end{array}$ $\begin{array}{r} 16 \\ -7 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ +7 \\ \hline \end{array}$ $\begin{array}{r} 15 \\ -13 \\ \hline \end{array}$

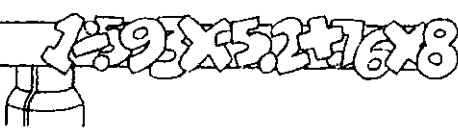
3. $\begin{array}{r} 17 \\ -11 \\ \hline \end{array}$ $\begin{array}{r} 18 \\ -0 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ +4 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ +6 \\ \hline \end{array}$ $\begin{array}{r} 16 \\ -11 \\ \hline \end{array}$ $\begin{array}{r} 14 \\ -9 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ +8 \\ \hline \end{array}$

4. $\begin{array}{r} 18 \\ -4 \\ \hline \end{array}$ $\begin{array}{r} 11 \\ -3 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ +8 \\ \hline \end{array}$ $\begin{array}{r} 16 \\ -9 \\ \hline \end{array}$ $\begin{array}{r} 14 \\ -5 \\ \hline \end{array}$ $\begin{array}{r} 13 \\ +5 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ +13 \\ \hline \end{array}$

5. $\begin{array}{r} 14 \\ +4 \\ \hline \end{array}$ $\begin{array}{r} 15 \\ -12 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ +9 \\ \hline \end{array}$ $\begin{array}{r} 18 \\ -12 \\ \hline \end{array}$ $\begin{array}{r} 6 \\ +9 \\ \hline \end{array}$ $\begin{array}{r} 15 \\ -9 \\ \hline \end{array}$ $\begin{array}{r} 14 \\ -3 \\ \hline \end{array}$

6. $\begin{array}{r} 17 \\ -10 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ +9 \\ \hline \end{array}$ $\begin{array}{r} 0 \\ +15 \\ \hline \end{array}$ $\begin{array}{r} 16 \\ -7 \\ \hline \end{array}$ $\begin{array}{r} 16 \\ -0 \\ \hline \end{array}$ $\begin{array}{r} 2 \\ +16 \\ \hline \end{array}$ $\begin{array}{r} 5 \\ +12 \\ \hline \end{array}$

MAD MATH



Subtraction 13-18: Problem Solving

Solve each problem by writing the difference.

1.	$\begin{array}{r} 15 \\ -8 \\ \hline 7 \end{array}$	$\begin{array}{r} 13 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ -18 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -7 \\ \hline \end{array}$
----	---	---	---	--	---	---

2.	$\begin{array}{r} 14 \\ -11 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -15 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -6 \\ \hline \end{array}$
----	--	---	--	---	---	---

3.	$\begin{array}{r} 17 \\ -0 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ -10 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ -10 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ -0 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -11 \\ \hline \end{array}$
----	---	--	---	--	---	--

4.	$\begin{array}{r} 16 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ -16 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -12 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ -11 \\ \hline \end{array}$
----	---	---	--	---	--	--

5.	$\begin{array}{r} 18 \\ -1 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -10 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -5 \\ \hline \end{array}$
----	---	---	---	---	--	---

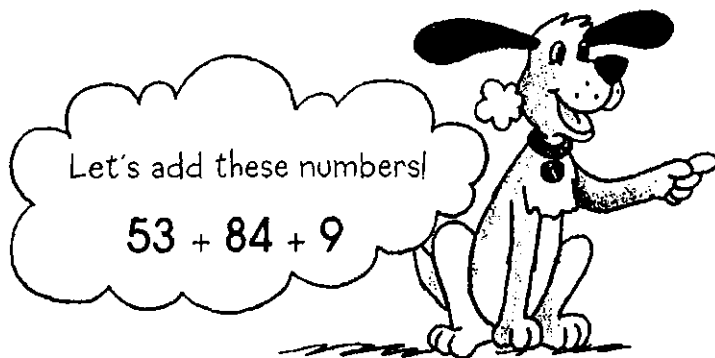
6.	$\begin{array}{r} 15 \\ -13 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ -12 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ -6 \\ \hline \end{array}$
----	--	---	---	---	--	---



©2008 Summer Bridge

Add More Numbers

To check your answer, add the numbers in the opposite order.



$$\begin{array}{r} 1 \\ 53 \\ 84 \\ + 9 \\ \hline 146 \end{array}$$

$$\begin{array}{r} 19 \\ 84 \\ + 53 \\ \hline 146 \end{array}$$

Add. Regroup if needed. Write the **sum**.

$$\begin{array}{r} 1. \quad 32 \\ 21 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ 12 \\ + 44 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ 6 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ 98 \\ + 99 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 12 \\ 14 \\ 15 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ 21 \\ 30 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ 8 \\ 37 \\ + 40 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ 55 \\ 4 \\ + 8 \\ \hline \end{array}$$

$$3. \quad 43 + 6 + 50 = \underline{\quad}$$

$$78 + 31 + 88 = \underline{\quad}$$

$$4. \quad 65 + 35 + 68 = \underline{\quad}$$

$$37 + 8 + 39 = \underline{\quad}$$

$$5. \quad 25 + 12 + 31 + 20 = \underline{\quad}$$

$$40 + 50 + 60 + 70 = \underline{\quad}$$

$$6. \quad 76 + 43 + 5 + 22 = \underline{\quad}$$

$$25 + 35 + 45 + 55 = \underline{\quad}$$

$$7. \text{ This one is a challenge! } 12 + 23 + 34 + 45 + 56 + 67 + 78 + 89 = \underline{\quad}$$

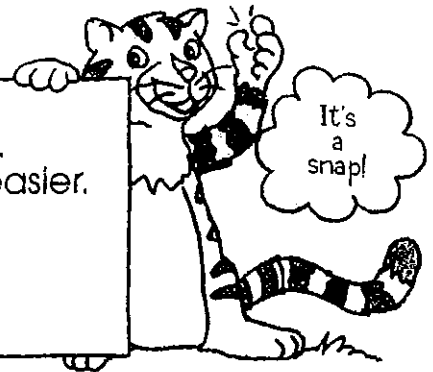
Add More Numbers



$$\begin{array}{r} 7 \\ 6 \\ + 3 \\ \hline 16 \end{array}$$

You can add numbers in any order.
Look for tens to make the adding easier.

$$\begin{array}{l} 7 + 3 = 10 \\ \text{Then } 10 + 6 = 16. \\ \text{It's easy!} \end{array}$$



Add: Write the sum.

1.
$$\begin{array}{r} 4 \\ 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 7 \\ + 8 \\ \hline \end{array}$$

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

$$\begin{array}{r} 9 \\ 4 \\ + 1 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 3 \\ 8 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 8 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 3 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 1 \\ + 7 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 6 \\ 2 \\ 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 2 \\ 0 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 4 \\ 5 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ 4 \\ 4 \\ + 4 \\ \hline \end{array}$$

4. $6 + 7 + 4 = \underline{\quad}$

$7 + 2 + 3 = \underline{\quad}$

5. $8 + 5 + 2 = \underline{\quad}$

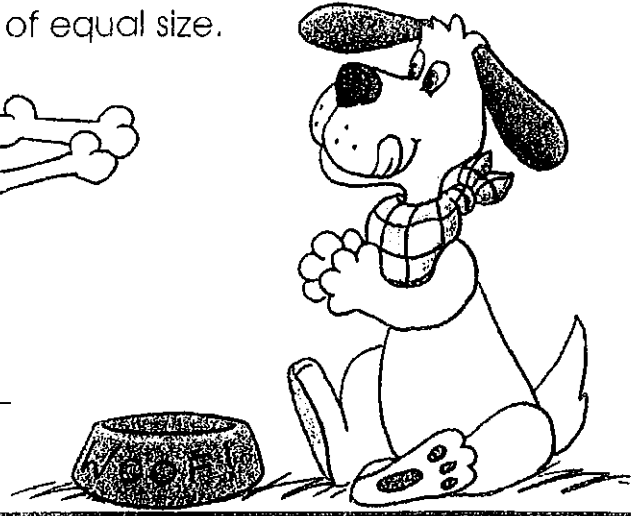
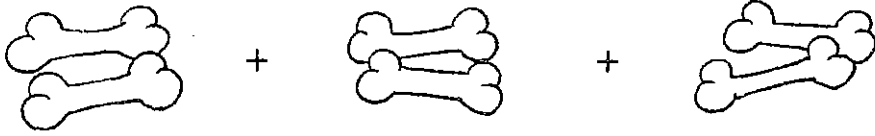
$9 + 0 + 9 = \underline{\quad}$

6. $6 + 7 + 2 + 3 = \underline{\quad}$

$4 + 5 + 6 + 5 = \underline{\quad}$

Introduction to Multiplication

Multiplication is a short way to add groups of equal size.



You can add: $\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

Meaning: $\underline{\quad}$ groups of $\underline{\quad} = \underline{\quad}$

You can multiply: $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

Write addition and multiplication sentences to tell how many.

1.

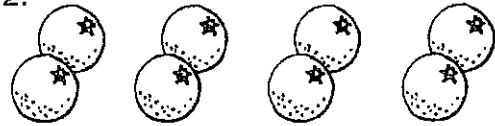


$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad}$ groups of $\underline{\quad} = \underline{\quad}$

$\underline{\quad} \times \underline{\quad} = \underline{\quad}$

2.



$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad}$ groups of $\underline{\quad} = \underline{\quad}$

$\underline{\quad} \times \underline{\quad} = \underline{\quad}$

3.



$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad}$ groups of $\underline{\quad} = \underline{\quad}$

$\underline{\quad} \times \underline{\quad} = \underline{\quad}$

4.

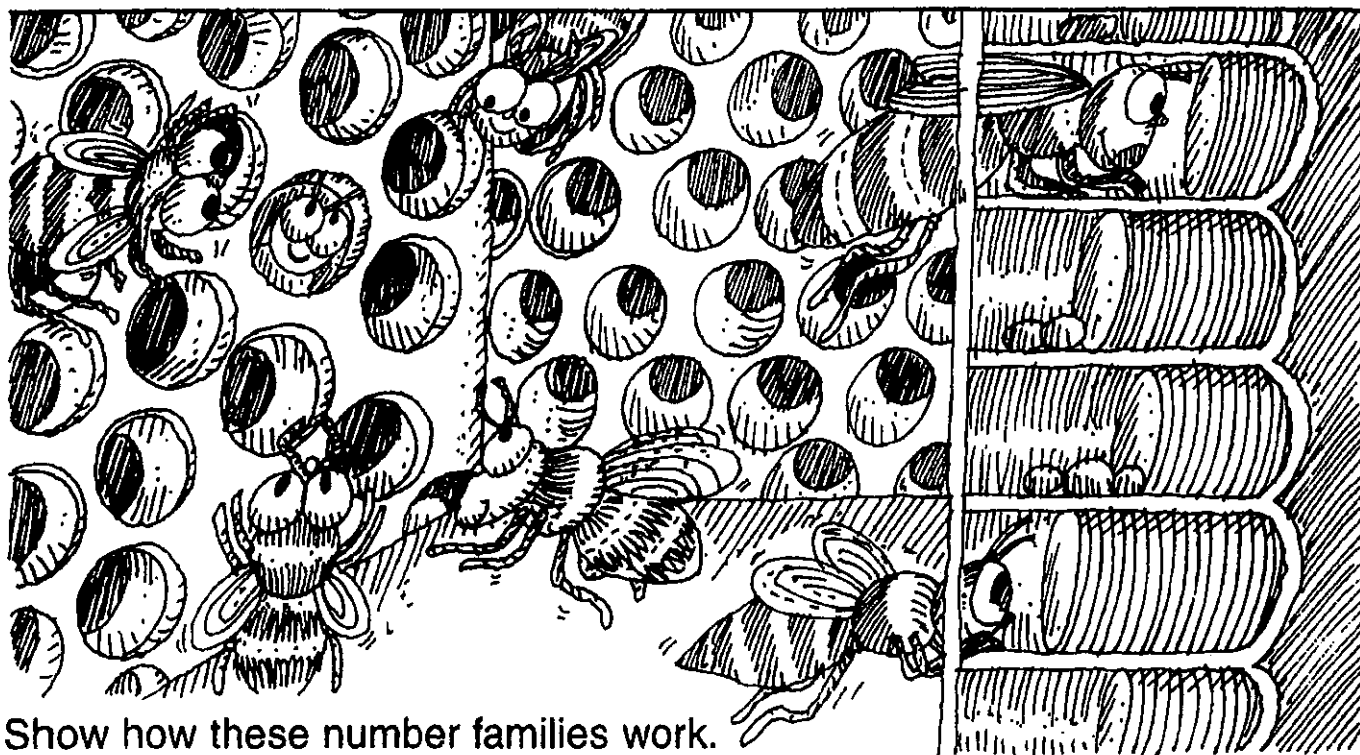


$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad}$ groups of $\underline{\quad} = \underline{\quad}$

$\underline{\quad} \times \underline{\quad} = \underline{\quad}$

MATH



Show how these number families work.

6, 8, 14

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

3, 18, 21

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

6, 13, 19

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

4, 16, 20

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

3, 15, 18

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

5, 17, 22

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Skills: Addition and subtraction facts

MATH

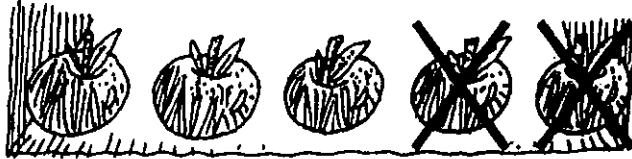
Subtracting is the opposite of adding.
Begin with 3 apples. Add 2.

$$3 + 2 = 5$$



Now subtract 2.

$$5 - 2 = 3$$



You're back to 3.

Addition and subtraction sentences with the same numbers make up a family of facts.

Meet the 8, 6, 14 family.

$8 + 6 = 14$	$14 - 8 = 6$
$6 + 8 = 14$	$14 - 6 = 8$

Show how these number families work.

7, 9, 16

$$7 + 9 = \underline{\quad}$$

$$9 + 7 = \underline{\quad}$$

$$16 - 9 = \underline{\quad}$$

$$16 - 7 = \underline{\quad}$$

5, 3, 8

$$5 + \underline{\quad} = 8$$

$$3 + \underline{\quad} = 8$$

$$8 - 5 = \underline{\quad}$$

$$\underline{\quad} - 3 = 5$$

6, 5, 11

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

7, 8, 15

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

5, 14, 19

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

9, 3, 12

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Skills: Addition and subtraction facts