

American Math
SUMMER ASSIGNMENT
Incoming 3rd graders



Hello scholars and parents,

The packet attached must be completed and brought on the first day of school in 3rd grade, August 23rd.

It will be worth a quiz grade.

Hope you and your families stay safe and enjoy a wonderful summer!

Mrs. Anelise Schlindwein



Adding

Write the answer between the lines.

$$\begin{array}{r} 46 \\ + 25 \\ \hline 71 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ + 24 \\ \hline 81 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ + 24 \\ \hline 72 \\ \hline \end{array}$$

Write the answer between the lines.

$$\begin{array}{r} 26 \\ + 15 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ + 16 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ + 14 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ + 12 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ + 15 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ + 15 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ + 16 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 17 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ + 19 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ + 15 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ + 17 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 14 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ + 14 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ + 26 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ + 15 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ + 14 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ + 14 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ + 16 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ + 15 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ + 13 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ + 35 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ + 48 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 27 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 32 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ + 45 \\ \hline \\ \hline \end{array}$$

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

$$\begin{array}{r} 33 \\ + 58 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ + 53 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ + 53 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ + 48 \\ \hline \\ \hline \end{array}$$



Subtracting

Write the answer between the lines.

$$\begin{array}{r} 38 \\ - 23 \\ \hline 15 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ - 20 \\ \hline 22 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ - 34 \\ \hline 30 \\ \hline \end{array}$$

Write the answer between the lines.

$$\begin{array}{r} 45 \\ - 23 \\ \hline \\ \hline \end{array}$$

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

$$\begin{array}{r} 53 \\ - 20 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ - 41 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ - 25 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ - 16 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ - 12 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ - 40 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ - 26 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ - 31 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ - 21 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ - 32 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ - 36 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ - 42 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ - 35 \\ \hline \\ \hline \end{array}$$

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

$$\begin{array}{r} 83 \\ - 41 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ - 35 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ - 53 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 86 \\ - 45 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ - 35 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ - 54 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 86 \\ - 66 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 96 \\ - 86 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ - 17 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ - 39 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ - 27 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ - 32 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ - 47 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ - 56 \\ \hline \\ \hline \end{array}$$

Subtracting



Write the answer between the lines.

Start with the ones.

Give ones to solve if the number on top is smaller than the number on the bottom.

3 is now 4

6 is now 16

$$\begin{array}{r} 1 \\ 46 \\ - 38 \\ \hline 08 \end{array}$$

You think: $16 - 8 = 8$
Then for the tens $4 - 4 = 0$

Write the answer between the lines.

$$\begin{array}{r} 36 \\ - 28 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ - 35 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ - 46 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ - 47 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ - 27 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ - 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ - 24 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ - 44 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ - 46 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ - 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ - 26 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ - 49 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ - 12 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ - 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ - 46 \\ \hline \\ \hline \end{array}$$

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

$$\begin{array}{r} 54 \\ - 38 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ - 45 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ - 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ - 26 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ - 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 71 \\ - 44 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ - 17 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ - 29 \\ \hline \\ \hline \end{array}$$

3-digit subtraction: same as 2-digit:

- START WITH THE ONES PLACE VALUE. Always from TOP to BOTTOM.
- If the number on top is greater than the number on the bottom, solve right away.
- If the number on top is smaller than the number on the bottom, give ones to solve.
(BAM BAM).

$$\begin{array}{r} 864 \\ - 300 \\ \hline \end{array}$$

$$\begin{array}{r} 717 \\ - 183 \\ \hline \end{array}$$

$$\begin{array}{r} 625 \\ - 295 \\ \hline \end{array}$$

$$\begin{array}{r} 955 \\ - 243 \\ \hline \end{array}$$

$$\begin{array}{r} 969 \\ - 632 \\ \hline \end{array}$$

$$\begin{array}{r} 804 \\ - 267 \\ \hline \end{array}$$

$$\begin{array}{r} 777 \\ - 628 \\ \hline \end{array}$$

$$\begin{array}{r} 983 \\ - 123 \\ \hline \end{array}$$

$$\begin{array}{r} 342 \\ - 172 \\ \hline \end{array}$$

$$\begin{array}{r} 969 \\ - 832 \\ \hline \end{array}$$

$$\begin{array}{r} 800 \\ - 595 \\ \hline \end{array}$$

$$\begin{array}{r} 576 \\ - 469 \\ \hline \end{array}$$

$$\begin{array}{r} 608 \\ - 170 \\ \hline \end{array}$$

$$\begin{array}{r} 361 \\ - 200 \\ \hline \end{array}$$

$$\begin{array}{r} 647 \\ - 314 \\ \hline \end{array}$$



Real-life problems

Write the answer in the box.

Sarah has eight wrenches and is given six more.
How many wrenches does she have now?

$$8 + 6 = 14$$



READ THE PROBLEM CAREFULLY. WRITE A NUMBER SENTENCE TO SOLVE IT. CIRCLE YOUR ANSWER.

Karl has 20 marbles but loses 12 in a game of marbles.
How many marbles does he have left?



After buying some candies for 30¢, Naomi still has
65¢ left. How much did she have to begin with?

Billy takes 20 balls out of a barrel
and leaves 15 in the barrel.
How many balls are
there altogether?

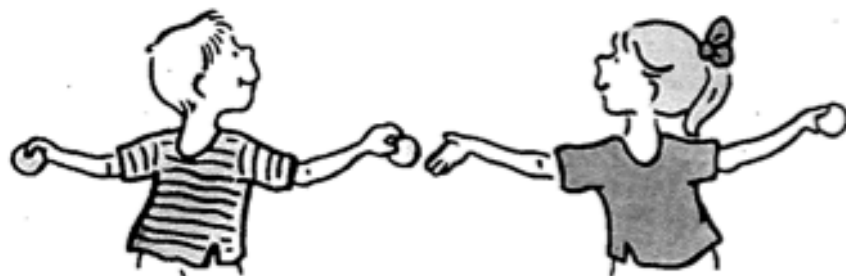


June collected 150 stamps and her father gave her
60 more. How many stamps does June have now?

Angela puts 40 toys in a box that already has 35 toys in it.
How many toys are in the box now?

Patrick leaves 45¢ at home and takes 50¢ with him. How much
money does Patrick have altogether?

Don gives some of his allowance to his sister. He gives his sister
80¢ and has 60¢ left. How much allowance did Don have in the
first place?

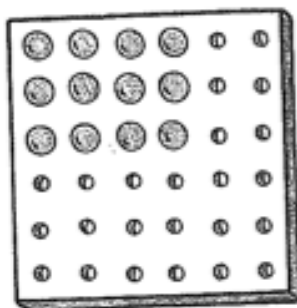


Five letters of the alphabet are vowels. How many letters of the
alphabet are not vowels?



Mixed tables

How many pegs are there in each pegboard?



3 rows of 4

$$3 \times 4 = 12$$

How many pegs are there in each pegboard?



rows of

$$\times =$$



rows of

$$\times =$$



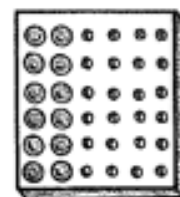
rows of

$$\times =$$



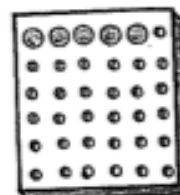
rows of

$$\times =$$



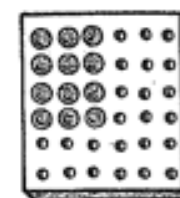
rows of

$$\times =$$



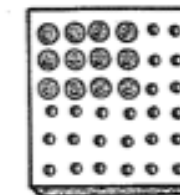
row of

$$\times =$$



rows of

$$\times =$$



rows of

$$\times =$$

Name _____

Arrays

Essential Question How can you use an array to find how many in all?

Model and Draw

An array can help you find how many in all.
It helps by ordering objects in rows.



2 rows of 6
12 in all

2 rows
of 6

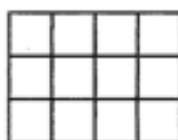


Share and Show



Write how many rows and how many in each row.
Write how many in all.

1.



____ rows of ____
____ in all

2.



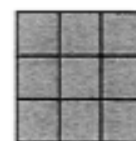
____ rows of ____
____ in all

3.



____ rows of ____
____ in all

4.



____ rows of ____
____ in all



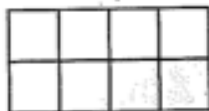
Math Talk How does an array help you find how many in all?

On Your Own

Write how many rows and how many in each row. Write how many in all.



5.



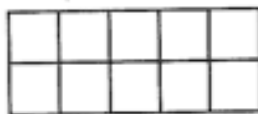
____ rows of ____
____ in all

6.



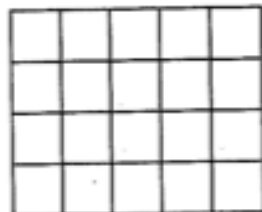
____ rows of ____
____ in all

7.



____ rows of ____
____ in all

8.



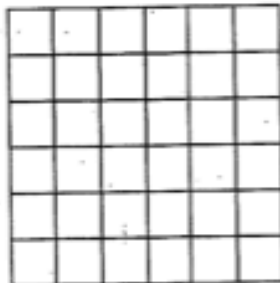
____ rows of ____
____ in all

PROBLEM SOLVING

Color at least 10 small squares to make an array that has at least 3 rows.

9. **H.O.T.** Write how many rows and how many in each row. Write how many in all.

____ rows of ____
____ in all



TAKE HOME ACTIVITY • Ask your child to draw squares to make an array and then tell you how many in all.

Multiplying



Write the answer in the box.

$7 \times 3 = 21$

$9 \times 5 = 45$

$6 \times 10 = 60$

Write the answer in the box.

$2 \times 3 =$

$7 \times 4 =$

$4 \times 3 =$

$6 \times 4 =$

$9 \times 5 =$

$8 \times 3 =$

$6 \times 3 =$

$10 \times 9 =$

$3 \times 2 =$

$9 \times 4 =$

$7 \times 5 =$

$5 \times 4 =$

$0 \times 3 =$

$8 \times 4 =$

$4 \times 10 =$

$0 \times 4 =$

$5 \times 3 =$

$4 \times 4 =$

$9 \times 3 =$

$8 \times 5 =$

READ THE PROBLEM CAREFULLY. WRITE A NUMBER SENTENCE TO SOLVE IT. CIRCLE YOUR ANSWER.

Three times a number is 18.
What is the number?

A child draws 8 squares.
How many sides
have to be drawn?



A box contains 4 cans of beans.
A man buys 9 boxes. How many
cans does he have?

A girl is given 3 stickers for
every point she gains in a
spelling test. How many will
she receive if she gets 10 points?



A number multiplied by 4 is 36.
What is the number?

Light bulbs come in packs of 3.
Erin buys 6 packs. How many
bulbs will she have?

Mari is given eight 5¢ coins.
How much money
is she given?



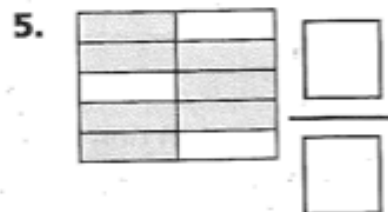
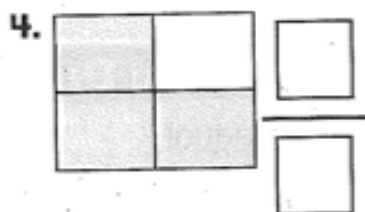
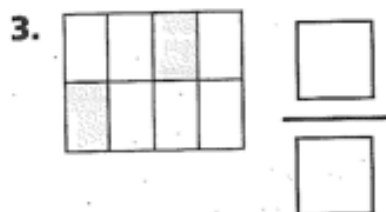
Four times a number is 24.
What is the number?

A bottle holds 4 liters of
soda. How much will
7 bottles hold?

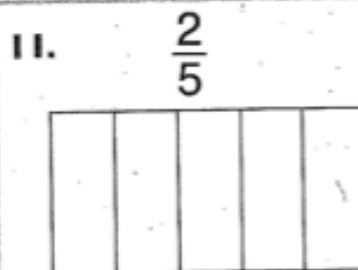
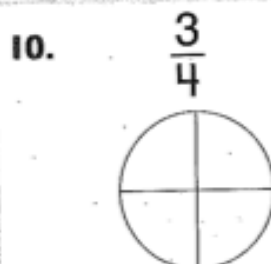
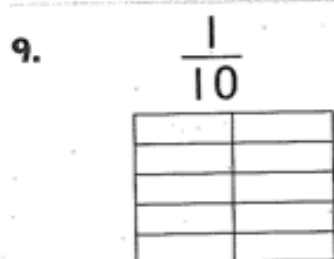
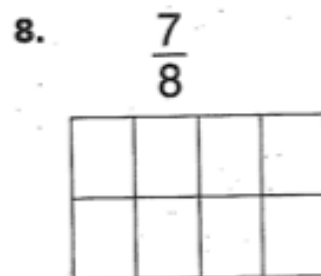
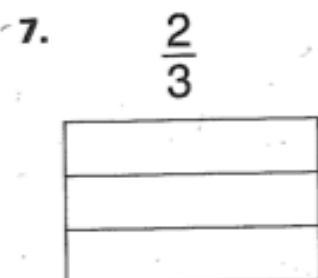
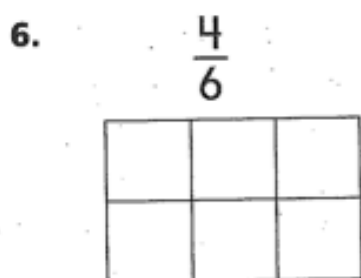
Six times a number is 30.
What is the number?

On Your Own

Write the fraction that names the shaded part of the whole.



Color to show the fraction.



PROBLEM SOLVING

REAL WORLD

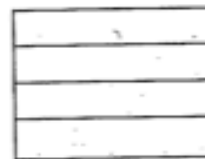
Color the pictures to solve.

12. Alicia colored one half of her paper blue. Molly wants to color the same amount of her paper blue. How many parts of her paper should Molly color blue?

_____ parts



Alicia's paper



Molly's paper



TAKE HOME ACTIVITY • Fold and cut a sheet of paper into eight equal pieces. Put the pieces into two piles, and ask your child to name the fraction for each pile.