

An Introduction to STORY PROBLEMS

3rd Grade



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STORY PROBLEMS

3rd grade

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••••• STORY PROBLEM TEACHING TIPS ••••

SAMPLE SCHEDULE

Day 1: Equal Groups Multiplication

Day 2: Equal Groups Division

Day 3: Array Multiplication

Day 4: Array Division

Day 5: Measurement Quantities Multiplication

Day 6: Measurement Quantities Division

Day 7: Comparing Multiplication

Day 8: Comparing Division

Days 9-12: Review all types of story problems.

Students figure out what type of problem they are solving.

MODEL

Each day, use a story problem poster problem to explicitly teach how to use the problem-solving process to solve one type of problem. Try sticking to one type of problem per day.

GUIDED PRACTICE

Each day, have small groups work together to solve a similar problem to the model. Students create posters showing how they used the problem-solving process. During the beginning stages, select one group to present.

INDEPENDENT PRACTICE

Have students solve two story problem sheets independently. I suggest only giving students two problems each day. It is important they spend time on the problem-solving process and checking their work. Quality, not quantity!

SMALL GROUPS

While students work independently, pull struggling students in a small group. After students complete their independent work, I let them go to centers while I continue to help struggling students. Each day, I correct independent work and use it to form the following day's small groups.

CLOSING

Select 1-2 students to share their work. Have the rest of the class use accountable talk to ask questions to the presenter.

STRATEG

factor → 5

EQUAL

SOLV

Visual

5

REPEA

$$3 + 3 + 3$$

Five 3s add

NUMBER LIN



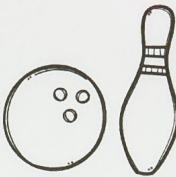
3 hops of 5

Name: _____

Date: _____

BOWLED OVER

Bartosz's bowling ball traveled a total distance of 36 yards. The bowling lane is 6 yards long. How many times did Bartosz bowl?



FOLLOW THE PROBLEM-SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

Visualize the problem

Retell the problem

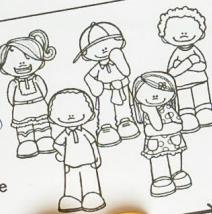
Underline key words
and circle key numbers

Name: _____

Date: _____

THIRD GRADE

The third grade at Willow Tree Elementary School has 16 students in each class. There is Mr. Levin's class, Ms. Wang's class, Mrs. many students are in the third grade at Willow Patel's class, and Mr. Ci

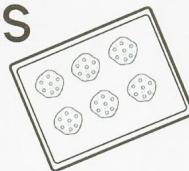


Name: _____

Date: _____

BAKING COOKIES

Sebastian was baking a batch of chocolate chip cookies. His batch makes 72 cookies. If Sebastian arranges the cookies on a cookie sheet with 8 rows, how many cookies are in each row?



FOLLOW THE PROBLEM-SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

Visualize the problem

Retell the problem

Underline key words
and circle key numbers

Solve the problem using a strategy



Write an equation

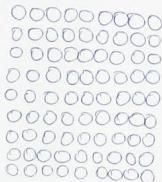
$$2 + 2 = 4$$

Label your answer
apples?

books?

Ch

Solve the problem using a strategy



Write an equation

$$2 + 2 = 4$$

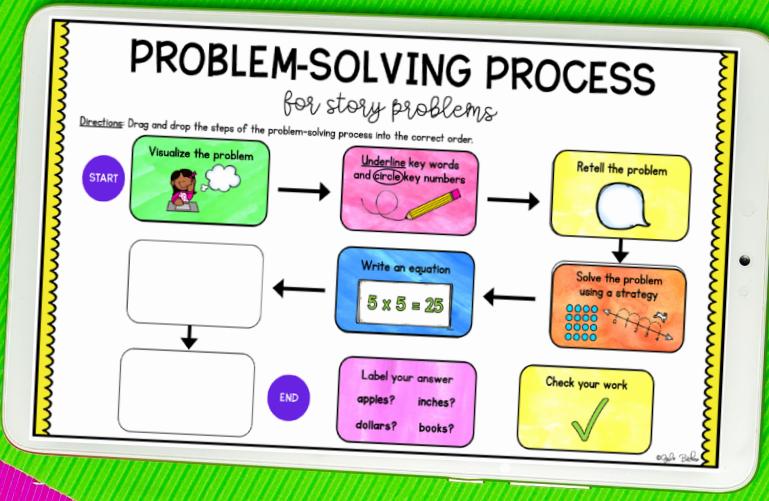
Label your answer
apples? dimes?

books? inches?

Check your work

- Use manipulatives
- Draw a picture
- Try a new strategy
- Use fact families
- Do the problem again

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Name:

BOWLED OVER

- FOLLOW THE PROBLEM-SOLVING STEPS: CHECK THE BOX**

ball travels
3 yards long. How far?

Visualize the problem

Ref tell the problem

Solve the problem using a strategy!

Write an equation
 $2 \div 2 = 1$

Label your answer
apples? dimes?
books? inches?
Check your work
• Use manipulatives
• Try a new strategy
• Do the problem again



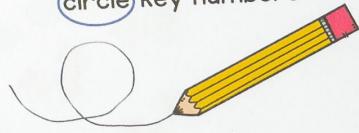
SOLVING

story prob

Visualize the problem

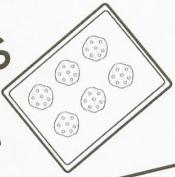


Underline key words and
circle key numbers



Retell the

ING COOKIES



of chocolate chip cookies. His
Sebastian arranges the cookies on a
tray. The question is, How many cookies are in each row?

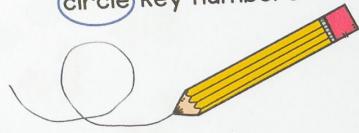
- SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.**

Underline key words
and circle key numbers



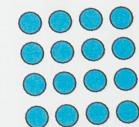
STRATEGIES

Underline key words and
circle key numbers



Solve the

a S



Write an equation

SOLVING

Visualize the problem



story p

Retell th

Underline key words and
circle key numbers

Write an e

$$5 +$$

PARTY GOODIES



FOLLOW THE PROBLEM-SOLVING STEPS. DRAG THE CHECK INTO THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

Sammy made goodie bags for his birthday party. If he makes 10 bags and puts 6 candies in each bag, how many candies does Sammy need to buy?

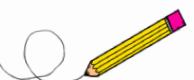
Visualize the problem



Retell the problem



Drag the lines to underline key words and the ovals to circle key numbers

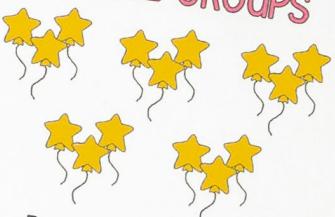


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STRATEGIES

$$\text{factor} \rightarrow 5 \times 3 = 15 \leftarrow \text{factor}$$

EQUAL GROUPS



5 groups with 3 in each

THIRD GRADE

Villow Tree Elementary School has 16 students.
is Mr. Levin's class, Ms. Wang's class, Mrs.



Date:

Name:

Date:

REPEATED ADDITION

$$3 + 3 + 3 + 3 + 3 = 15$$

NUMBER

5 rows w

BAKING COOKIES

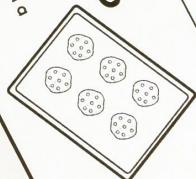
Date:

Solve the problem using a strategy
Write on a

Sebastian is baking a batch of chocolate chip cookies. His mom says he has 72 cookies. If Sebastian arranges the cookies on a sheet with 8 rows, how many cookies are in each row?

FOLLOW THE PROBLEM-SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

- Solve the problem
- Visualize the problem
- Retell the problem



THIRD GRADE

Name: _____

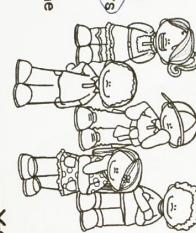
Date: _____

The third grade at Willow Tree Elementary School has 16 students in each class. There is Mr. Lee's class, Mrs. Patel's class, and Mr. Crable's class. How many students are in the third grade at Willow Tree Elementary in total?

FOLLOW THE PROBLEM-SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

- Solve the problem using a strategy
- Visualize the problem
- Retell the problem

Underline key words and circle key numbers



Name: _____

Date: _____

BOWLED OVER

Bartosz's bowling ball traveled a total distance of 36 yards. The bowling lane is 3 yards long. How many times did Bartosz bowl?

FOLLOW THE PROBLEM-SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

- Solve the problem
- Visualize the problem
- Retell the problem

Underline key words and circle key numbers

Write

E

Y

W

O

R

A

T

H

I

S

C

U

N

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

PARTY GOODIES



FOLLOW THE PROBLEM-SOLVING STEPS. DRAW A CHECK INTO THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

Sammy made goodie bags for his birthday party. If he makes 10 bags and puts 6 candies in each bag, how many candies does Sammy need to buy?

Solve the problem using a strategy

Drag the dots, use the toolbox, or create your own shapes

10 X 6

SOLVING

Visualize the problem



Underline key words
circle key numbers

Write

E

Y

W

R

A

T

H

I

S

C

U

N

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

COOKIES

Date:

3RD GRADE

Date:

My School has 16 students.
Yang's class, Mrs.
Students are in the

HAVE COMPLETED EACH
Underline key words
and circle key numbers

ER
Date:



GROCERY SHOPPING

FOLLOW THE PROBLEM-SOLVING STEPS. DRAG THE CHECK INTO THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

Keiko went grocery shopping. She has 4 bags of groceries with an equal amount of groceries in each bag. Keiko has 32 groceries. How many groceries are in each bag?

✓ Visualize the problem ✓ Retell the problem ✓ Drag the lines to underline key words and the ovals to circle key numbers

What type of story problem is this? Drag your answer here:

Equal Groups Measurement Quantities Arrays Comparing Part-Whole

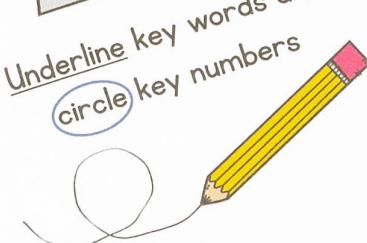
SOLVING story prob

Retell the problem

Visualize the problem



Underline key words and
circle key numbers



Write an equation

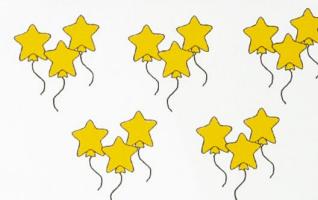
$$5 \times 5 = 25$$

STRATEGIES

multip

$$\text{factor} \rightarrow 5 \times 3 = 15 \leftarrow \text{factor}$$

EQUAL GROUPS



5 groups with 3 in each

REPEATED ADDITION

$$3 + 3 + 3 + 3 + 3 = 15$$

Five 3s added together

NUMBER LINE HOPS



N

addition

multiplicat



TEST: STORY PROBLEMS

Directions: Solve the problem using the problem-solving strategies.

L Kimmy has 7 bags of jelly beans. Each bag has 8 jelly beans. How many jelly beans does Kimmy have in total?

WORK
Drag the dots, use the toolbox, or create your own shapes

EQUATION

ANSWER

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BAKING COOKIES

Name: _____ Date: _____

Sebastian was baking a batch of chocolate chip cookies. His batch makes 72 cookies. If Sebastian arranges the cookies on a cookie sheet with 8 rows, how many cookies are in each row?

FOLLOW THE PROBLEM-SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

- Underline key words and **circle** key numbers
- Draw the dots, use the toolbox, or create your own shapes
- Retell the problem
- Visualize the problem

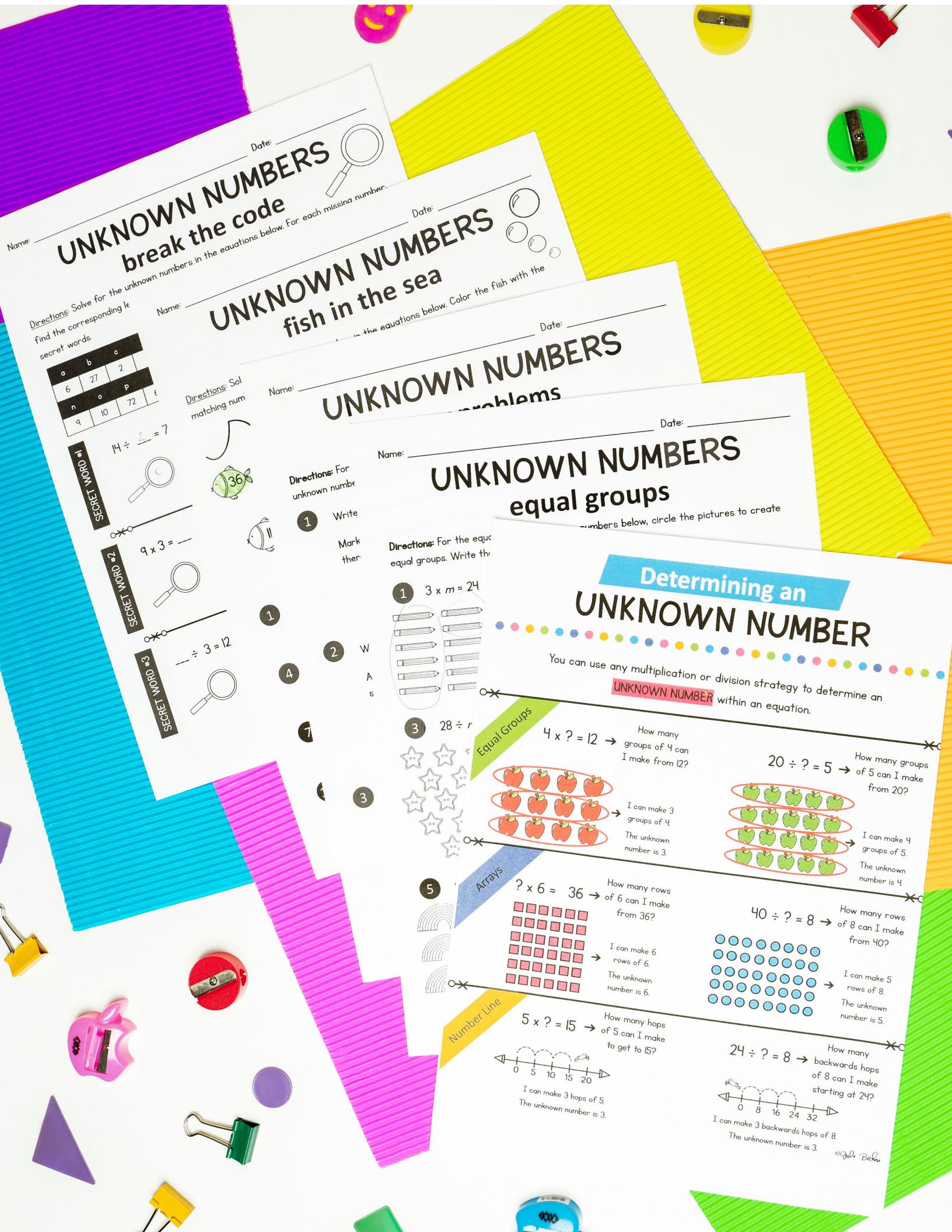
THIRD GRADE

Name: _____ Date: _____

The third grade at Willow Tree Elementary School has 16 students in each class. There is Mr. Levin's class, Ms. Wang's class, Mrs. Patel's class, and Mr. Crable's class. How many students are in the third grade at Willow Tree Elementary in total?

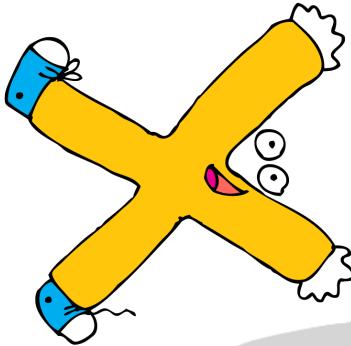
FOLLOW THE PROBLEM-SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

- Underline key words and **circle** key numbers
- Draw the dots, use the toolbox, or create your own shapes
- Retell the problem
- Visualize the problem



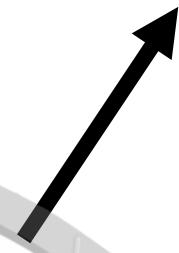
MULTIPLICATION

Repeated addition,
or combining, of
groups of equal
sizes



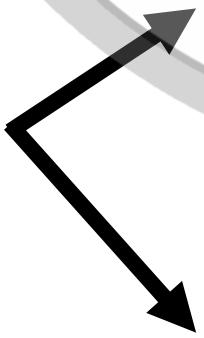
PRODUCT

$$5 \times 3 = 15$$



FACTOR

$$5 \times 3 = 15$$



REPEATED ADDITION

$$4 + 4 + 4 = 4 \times 3$$

READING GROUPS

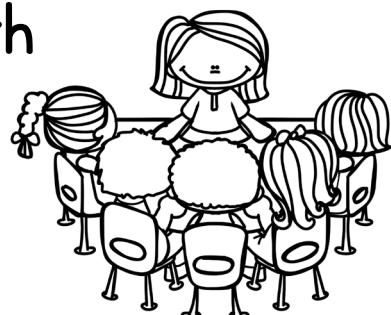
Mrs. Turner meets with 3 reading groups each day. If each group has 6 students, how many students does Mrs. Turner see each day?



©Julie Bochoso

READING GROUPS

Mrs. Turner meets with 20 students in small groups each day. If each group has 5 students, how many groups does she meet with each day?

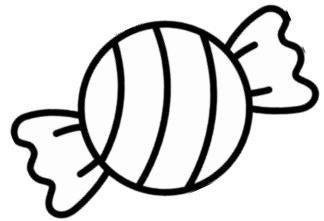


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Name: _____ Date: _____

PARTY GOODIES

Sammy made goodie bags for his birthday party. If he makes 10 bags and puts 6 candies in each bag, how many candies does Sammy need to buy?



OX → FOLLOW THE PROBLEM-SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

Visualize the problem



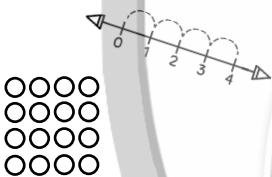
Retell the problem



Underline key words and circle key numbers



Solve the problem using a strategy



OX

Write an equation

$$2 + 2 = 4$$

Label your answer

apples? dimes?

books? inches?

Check your work

- Use manipulatives
- Try a new strategy
- Do the problem again

- Draw a picture
- Use fact families



Name: _____ Date: _____

AT BAT

Tommy and his friends are playing baseball. The distance around the bases is 80 feet in total. If there are four bases, what is the distance between each base?



FOLLOW THE PROBLEM-SOLVING STEPS. CHECK THE BOX AFTER YOU HAVE COMPLETED EACH STEP.

Visualize the problem



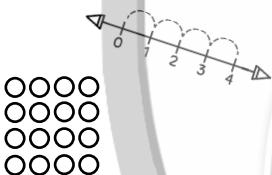
Retell the problem



Underline key words and circle key numbers



Solve the problem using a strategy



Write an equation

$$2 + 2 = 4$$

Label your answer

apples? dimes?

books? inches?

Check your work

- Use manipulatives
- Try a new strategy
- Do the problem again

- Draw a picture
- Use fact families



Name: _____ Date: _____

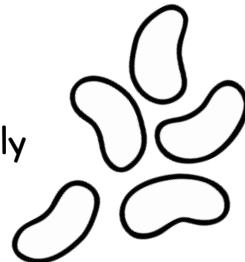
TEST: STORY PROBLEMS

Directions: Solve each problem using the problem-solving strategies.

1. Kimmy has 7 bags of jelly beans. Each bag has 8 jelly beans. How many jelly beans does Kimmy have in total?

WORK

EQUATION

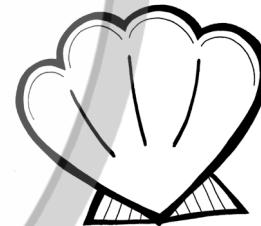


ANSWER

2. Tyrone has a collection of 24 seashells. He has equal amounts of conch, clam, scallop, and oyster shells. If Tyrone sorts his shells by type, how many shells are in each group?

WORK

EQUATION



ANSWER

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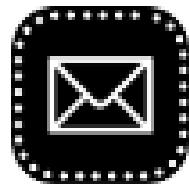
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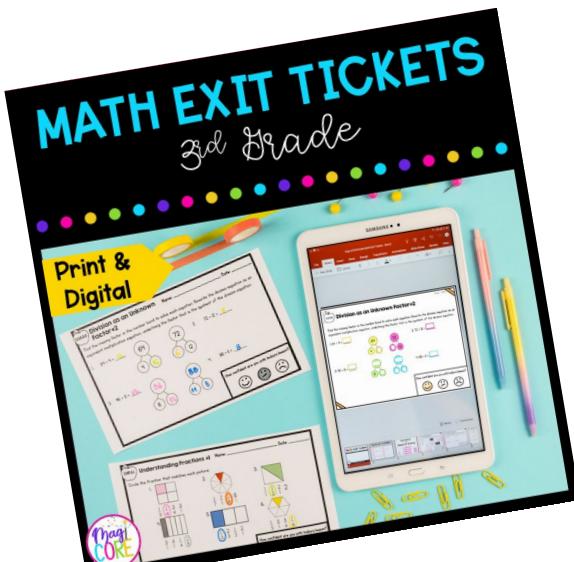
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