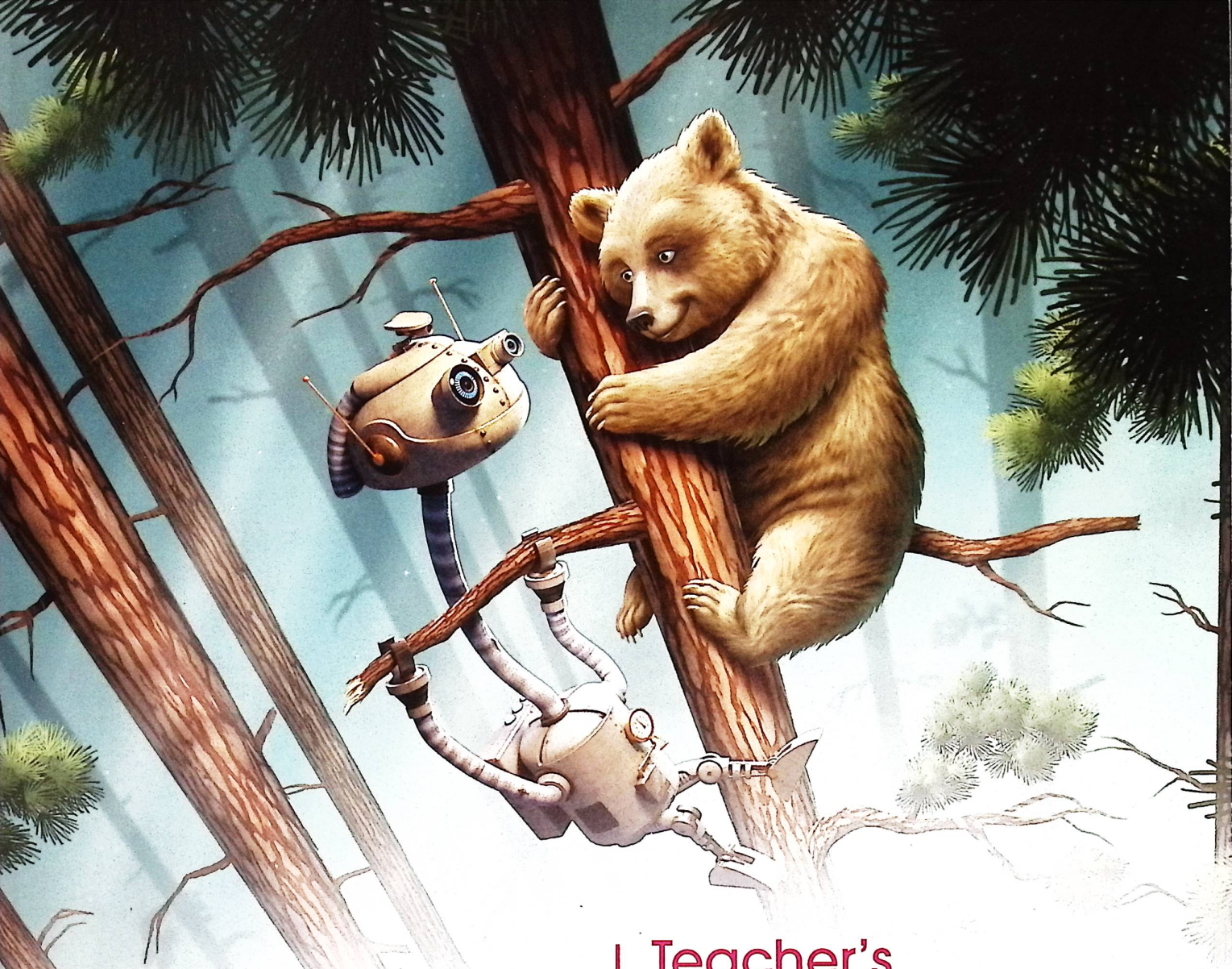




Teacher's Resource Masters

GRADE 2 VOLUME 1

Topics 1-8

Interactive Math Stories
Home-School Connection Letters
Pick a Project
enVision® STEM Activities
Daily Review
Reteach to Build Understanding
Build Mathematical Literacy
Enrichment
Fluency Practice/Assessment

Grade 2

Volume 1: Topics 1–8

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Fluently Add and Subtract Within 20

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Topic 1 Interactive Math Story
Topic 1 Home-School Connection
(English and Spanish)
Topic 1 Pick a Project A–C
enVision® STEM Activity 1-2, 1-3
Daily Review (D) 1-1 through 1-10
Reteach to Build
Understanding (R) 1-1 through 1-10
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Add Within 100 Using Strategies

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Build Mathematical
Literacy (M) 8-1 through 8-8

Enrichment (E) 8-1 through 8-8

Name _____

Add and Subtract Within 20

Find each sum or difference.

1. $6 + 6 =$ _____

2. $4 + 5 =$ _____

3. $7 + 9 =$ _____

4. $10 + 5 =$ _____

5. $15 - 6 =$ _____

6. $8 - 2 =$ _____

7. $5 + 7 =$ _____ $+ 5$

8. $4 + 0 = 0 +$ _____

9. $7 + 6 = 6 +$ _____

10. $8 + 7 =$ _____

11. $9 + 4 =$ _____

12. $3 + 8 =$ _____

13. $14 - 8 =$ _____

14. $11 - 4 =$ _____

15. $18 - 9 =$ _____

16. $3 + 6 = 9$,
so $9 - 6 =$ _____.

17. $5 + 9 = 14$,
so $14 - 5 =$ _____.

18. $8 + 4 = 12$,
so $12 - 8 =$ _____.

19. Circle each problem that has a sum or difference of 9.

$4 + 6$

$10 - 1$

$5 + 5$

$16 - 7$

$8 + 2$

$15 - 8$

$2 + 7$

$12 - 3$

$1 + 8$

Name _____

Add and Subtract Within 20

Find each sum or difference.

1. $6 + 8 =$ _____

2. $5 + 5 =$ _____

3. $7 + 6 =$ _____

4. $11 - 3 =$ _____

5. $16 - 7 =$ _____

6. $8 + 4 =$ _____

7. $9 + 5 =$ _____ $+ 9$

8. $10 + 7 = 7 +$ _____

9. $0 + 6 =$ _____ $+ 0$

10. $2 + 9 =$ _____

11. $8 + 5 =$ _____

12. $4 + 7 =$ _____

13. $14 - 9 =$ _____

14. $12 - 3 =$ _____

15. $13 - 6 =$ _____

16. $7 + 2 = 9$,
so $9 - 7 =$ _____.

17. $9 + 4 = 13$,
so $13 - 9 =$ _____.

18. $6 + 5 = 11$,
so $11 - 5 =$ _____.

19. Circle each problem that has a sum of 15.

$9 + 6$

$5 + 0$

$6 + 9$

$8 + 9$

$7 + 8$

$3 + 10$

$7 + 7$

$5 + 10$

$8 + 7$

Name _____

Add and Subtract Within 20

Find each sum or difference.

1. $9 + 9 =$ _____

2. $4 + 6 =$ _____

3. $3 + 4 =$ _____

4. $9 + 4 =$ _____

5. $6 + 3 =$ _____

6. $14 - 4 =$ _____

7. $8 + 6 = 6 +$ _____

8. $7 + 3 =$ _____ $+ 7$

9. $2 + 9 =$ _____ $+ 2$

10. $7 + 8 =$ _____

11. $6 + 9 =$ _____

12. $5 + 6 =$ _____

13. $11 - 3 =$ _____

14. $15 - 8 =$ _____

15. $12 - 7 =$ _____

16. $9 + 3 = 12$,
so $12 - 9 =$ _____.

17. $7 + 7 = 14$,
so $14 - 7 =$ _____.

18. $5 + 4 = 9$,
so $9 - 4 =$ _____.

19. Write the missing number for each equation.

$16 - 7 =$

$10 + 5 =$

$12 -$ $= 8$

$- 9 = 2$

$+ 6 = 12$

$+ 8 = 10$

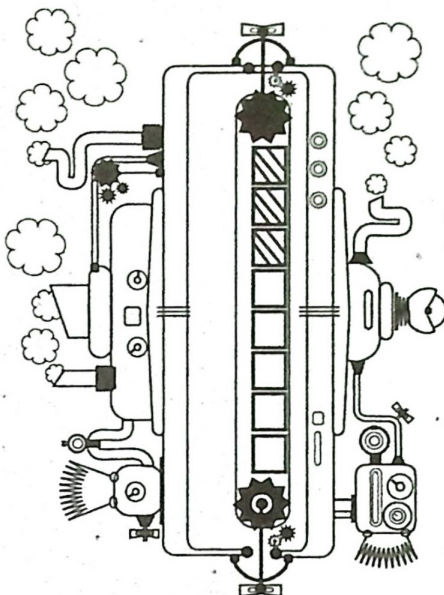
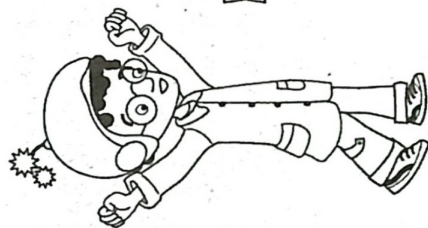
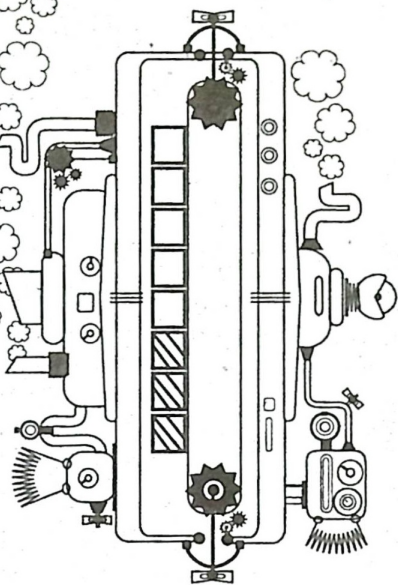
This book belongs to:

TOPIC

1 Story

The Math Machine

Written by Emily James
Illustrated by
Luciana Navarro-Powell



8 cubes go into the machine.

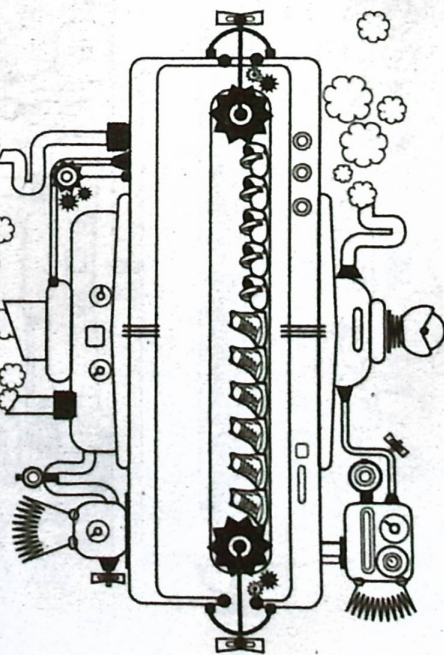
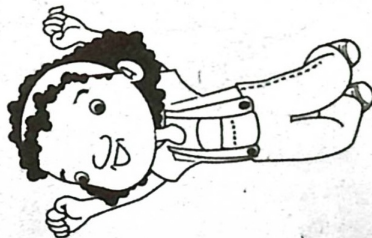
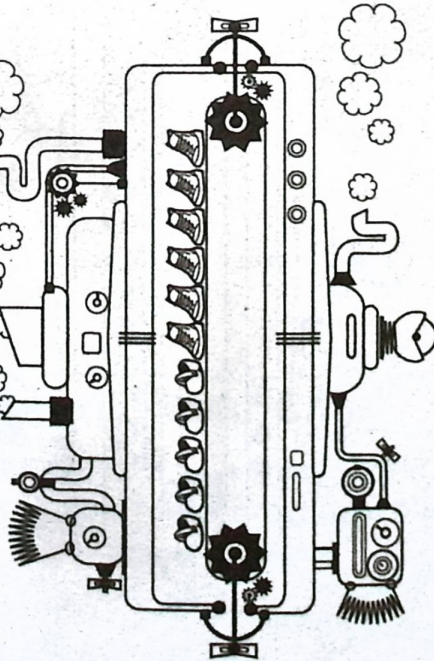
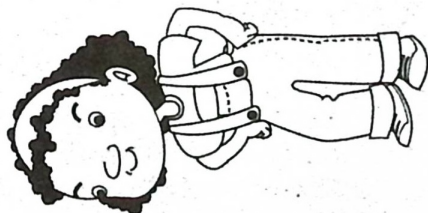
The machine turns them around, but
the number of cubes stays the same.

$$+ \quad = 8$$

$$+ \quad =$$

Topic 1

1



11 shoes go into the machine.

The machine turns them around, but
the number of shoes stays the same.

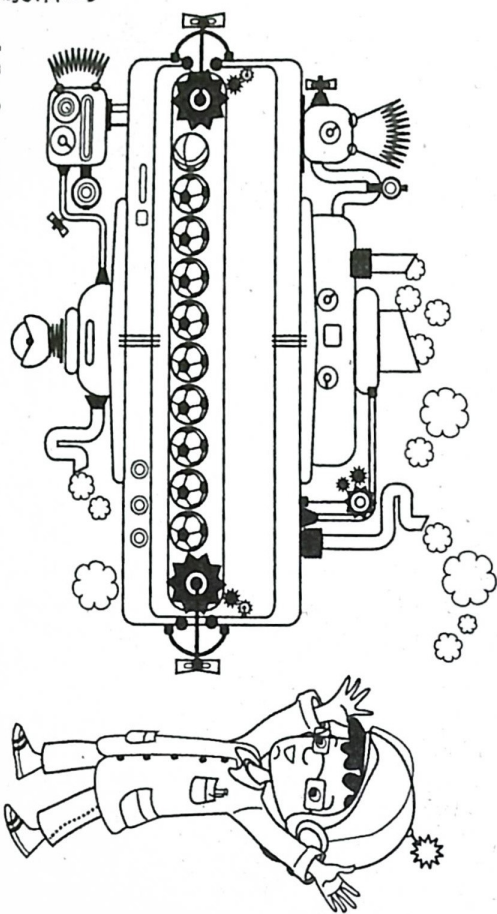
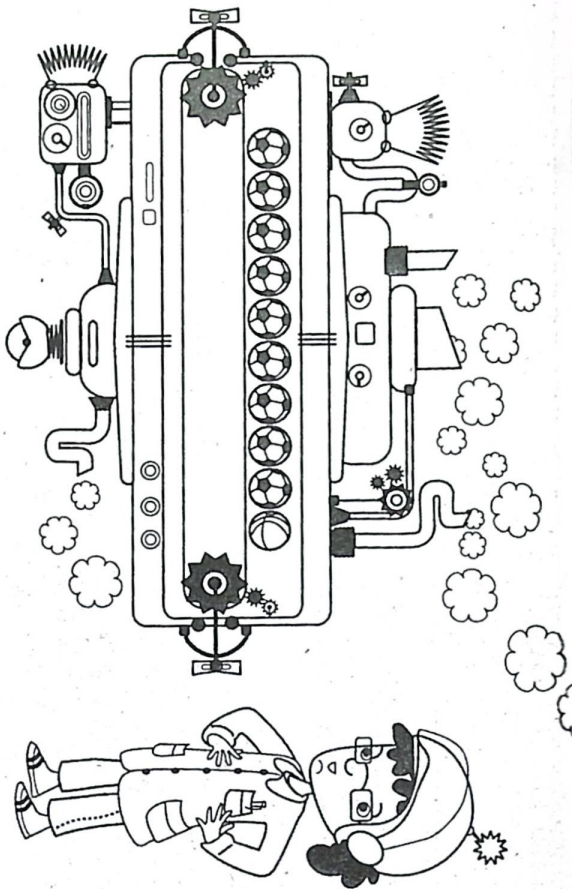
$$+ \quad = 11$$

$$+ \quad =$$

Topic 1

4

fold down

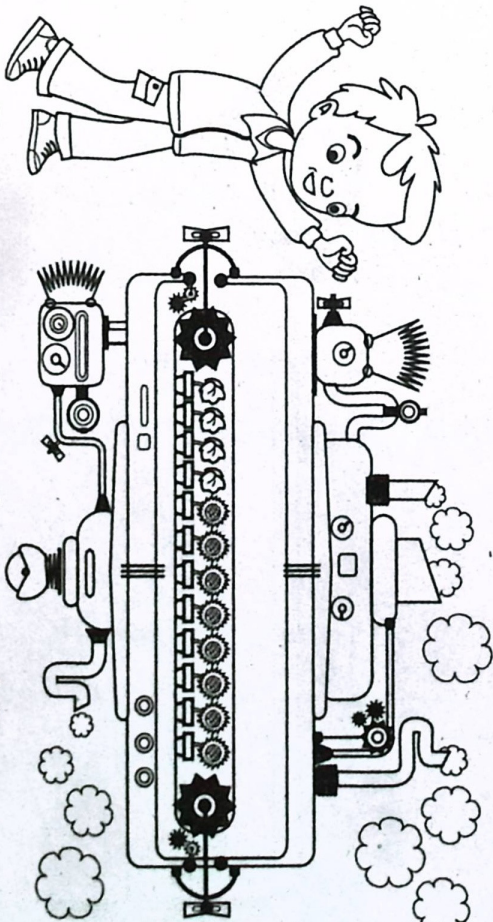
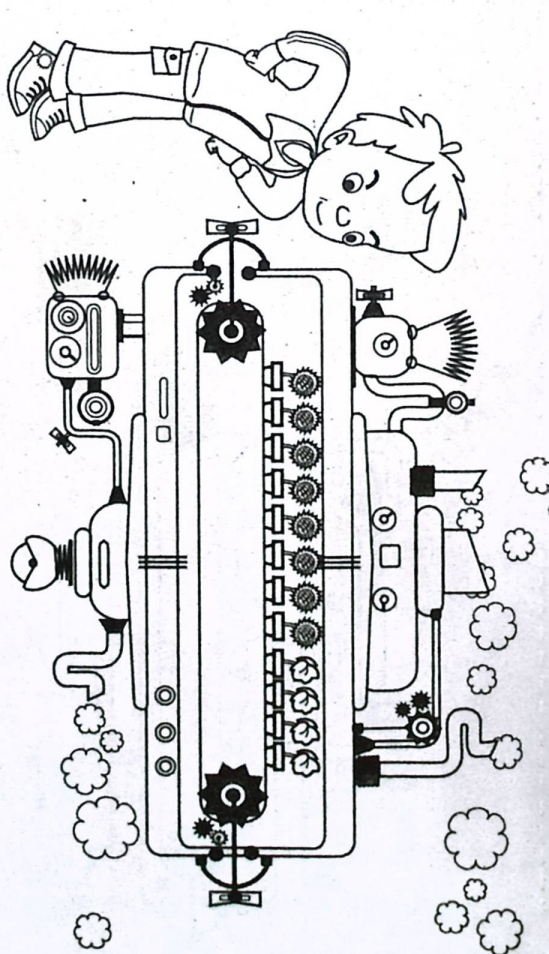


10 balls go into the machine.

The machine turns them around, but
the number of balls stays the same.

$$+ \quad = 10$$

$$+ \quad =$$



12 flowers go into the machine.

The machine turns them around, but
the number of flowers stays the same.

$$+ \quad = 12$$

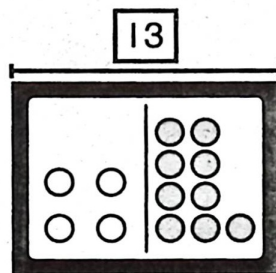
$$+ \quad =$$

Name _____

Fluently Add and Subtract Within 20

Dear Family,

Your child is learning about addition and subtraction within 20. In this topic, he or she will learn *several strategies* for finding sums and differences. Some of the strategies include counting on, counting back, making ten, using doubles and near doubles, and using the relationship between addition and subtraction. The model below can be used to represent related addition and subtraction equations. It shows addition when both parts (counters) are given and the total is unknown. It shows subtraction when the total and one of the parts are given and the other part is unknown.



This bar diagram shows these equations:

$$4 + 9 = 13$$

$$13 - 9 = 4$$

$$9 + 4 = 13$$

$$13 - 4 = 9$$

Writing Addition and Subtraction Equations

Materials 15 small objects, paper, pencil

Separate 12 objects, such as paper clips or buttons, into two groups. Have your child write two addition equations and two subtraction equations to model the objects. Then allow your child to separate the objects into two different groups. Write two addition equations and two subtraction equations to model the objects. Have your child help you decide if they are correct. Repeat the activity with 6 and 9 objects.

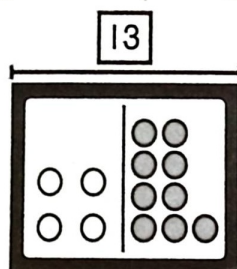
Observe Your Child

After you and your child decide if the equations are correct, ask him or her to explain how the objects represent the numbers in the equations.

Sumar y restar con facilidad hasta 20

Estimada familia:

Su niño(a) está aprendiendo a sumar y restar hasta 20. En este tema, aprenderá varias estrategias para hallar sumas y diferencias. Algunas de las estrategias incluyen contar hacia adelante, contar hacia atrás, formar 10 usando dobles y casi dobles, y usar la relación entre la suma y la resta. El siguiente modelo se puede usar para representar ecuaciones de suma y resta relacionadas. En él se muestra la suma cuando se dan ambas partes (fichas) y se desconoce el total. También se muestra la resta cuando se da el total y una de las partes y se desconoce la otra parte.



El diagrama de barras muestra estas ecuaciones:

$$4 + 9 = 13$$

$$13 - 9 = 4$$

$$9 + 4 = 13$$

$$13 - 4 = 9$$

Escribir ecuaciones de suma y de resta

Materiales 15 objetos pequeños, papel, lápiz

Separe 12 objetos, como clips o botones, en dos grupos. Pida a su niño(a) que escriba dos ecuaciones de suma y dos ecuaciones de resta para representar los objetos. Luego, pídale que separe los objetos en dos grupos diferentes. Escriba dos ecuaciones de suma y dos ecuaciones de resta para representar los objetos y pida a su niño(a) que le ayude a decidir si son correctas. Repita la actividad con 6 y 9 objetos.

Observe a su niño(a)

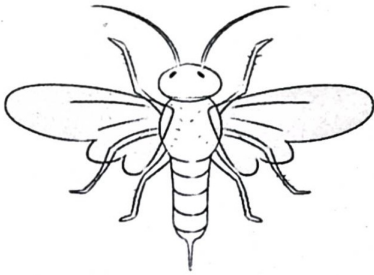
Después de que usted y su niño(a) decidan si las ecuaciones son correctas, pídale que explique cómo representan los objetos los números de las ecuaciones.

Name _____

Pick a Project

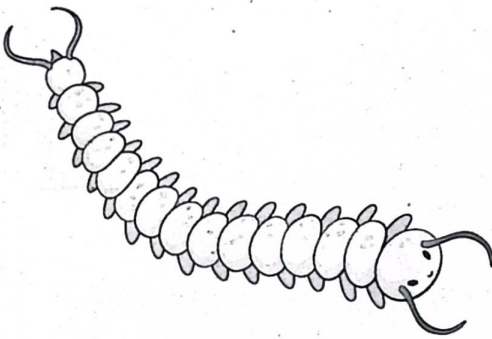
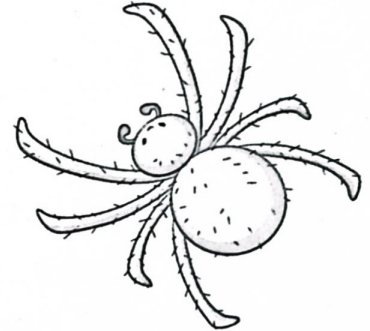
Project 1A

More Than 4 Legs



The giant wood wasp is an insect with 3 legs on each side. It chews up wood to build its nest.

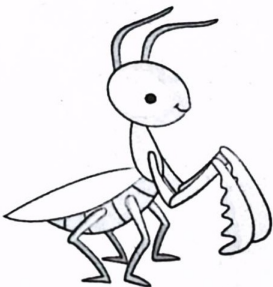
A tarantula is a spider with 4 legs on each side. It can be as big as a dinner plate. Most tarantulas do not harm humans.



A centipede is an arthropod with many legs. It has a pair of legs for each body segment. A centipede can bite!

Your Project Make an Insect and Spider Poster

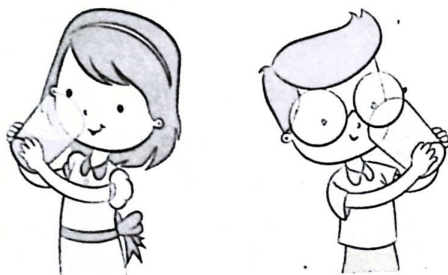
Find pictures of 6 different insects and 6 different spiders. Make a poster to display these. Write a doubles fact to show the number of legs for each insect and spider.



Praying Mantis

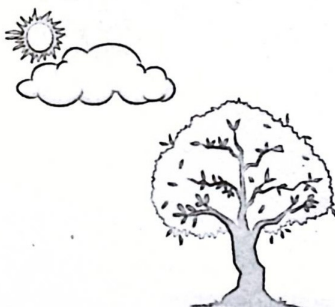
_____ + _____ = _____ legs

Water Fun Facts



Drinking water makes you feel good. Water helps keep your blood and body healthy. You should drink 6 to 8 glasses of water each day.

People like to swim in the ocean. Beaches have lots of water, sand, shells, and attractions. There are beaches in many states.



Like all life, trees and plants need water to grow. Water carries nutrients to the cells of plants. Water pressure in the cells helps plants stay strong.

Your Project Collect Water Data

Record the number of glasses of water you drink for 3 days. Use tally marks to keep track. Make a chart of the data. Write an equation to find the total number of glasses of water you drink.



Monday:



Name _____

Pick a Project

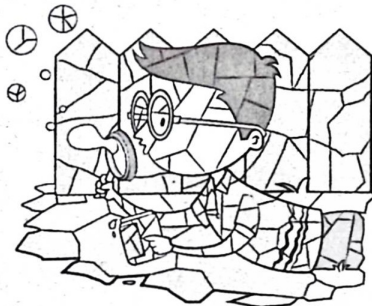
Project 1C

Creative Collage



A collage is a work of art. It can be made from different pictures, scraps of paper, and found objects. The pieces are usually glued onto large paper.

The first collages were created hundreds of years ago. Collages can have a common theme, such as sports or hobbies.



Sometimes the small pieces in collages form larger pictures. Famous collage artists sometimes use this style.

Your Project Create a Shape Collage

Cut out 20 shapes from different colors of paper. Glue the shapes onto a poster to create a collage. Write 2 different story problems about your collage. Include your solutions!

