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Znd Grade

# Math

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First American Edition, 2014 Published in the United States by DK Publishing 4th floor, 345 Hudson Street, New York, New York 10014

> 17 10 9 8 7 6 5 4 3 2 002–197337–Feb 2014

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> A catalog record for this book is available from the Library of Congress. ISBN: 978-1-4654-1734-3

DK books are available at special discounts when purchased in bulk for sales promotions, premiums, fund-raising, or educational use. For details, contact: DK Publishing Special Markets 4th floor, 345 Hudson Street, New York, New York 10014 or SpecialSales@dk.com.

Printed and bound in China

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Write the missing numbers on the kites in each row.

25

26

27

28



Fill in the missing number words in each row by choosing them from the box.

Thirty	Twent	ty	Forty	Seventy
Two	enty-six	One hundred	Twent	zy-nine
Ten		Thirty		Fifty
Sixty	•••••	Eighty	Ninety	
Twenty-five	•••••	Twenty-seven	Twenty-eight	•••••
Read the wor	ds. Write the co	rrect number.		
Eighty-five	1	Ninety-nine		Fifty-six
<u> </u>	22/56	7901	2456	79017



Learn the hundreds, tens,	357	3	5	7	G C T
and ones places in a number.		Hundreds	Tens	Ones	F

Find the place value. Write how many hundreds, tens, and ones there are in each number.



Circle the place value of the underlined number.

5 ones



1933 hundreds 3 tens



89123456/891



Learn to change the ones.

Follow the instructions. Write the new number.

Add 3 ones to 25	Add 5 ones to 43	
Add 9 ones to 33	Add 7 ones to 72	
Subtract 1 one from 91	Subtract 4 ones from 44	
Subtract 2 ones from 66	Subtract 4 ones from 22	

Write the new number and the value that was added or taken away.

	New number		Value
Change the 4 in 84 to 8	3	The new number is greater by	
Change the 7 in 67 to 9	)	The new number is greater by	
Change the 5 in 75 to 7	, ( <u>)</u>	The new number is greater by	
Change the 6 in 66 to 1	. ()	The new number is less by	
Change the 9 in 39 to 5	;	The new number is less by	
Change the 8 in 48 to 3		The new number is less by	

Add 2 ones to 52. Then add 3 more ones. Write the new number.



Learn to change the tens.	The value of th	e circled number is 89 Fighty	1(1)5 Ten	GOAL
	Or Strig			

Write the number and then the word in each row.

	Number	Word
The value of 4 in 47 is		•••••
The value of 8 in 183 is		•••••
The value of 6 in 62 is		•••••
The value of 2 in 126 is		•••••
The value of 5 in 150 is		•••••

Write the answer as a number and as a word in each row.

	Number	Word
If you change 21 to 51, how much value did you add?		
If you change 43 to 83, how much value did you add?	$\bigcirc$	
If you change 65 to 35, how much value did you subtract?		•••••

Circle the numbers in which the 2 has a value of 20.

82 28 125



Learn odd and even numbers.

Even numbers end in 0, 2, 4, 6, and 8.

Odd numbers end in 1, 3, 5, 7, and 9.

Even numbers of objects can be grouped into pairs. When odd numbers of objects are grouped in pairs, there is always one extra. Is the number of objects in each row below odd or even? Circle groups of two to find out.





GOAL

Find out how	3 + 5 - 8	5 + 3 - 8	8 _ 3 _ 5	8 _ 5 _ 3
numbers are part	5 + 5 = 0	5 + 5 = 0	0 - 5 - 5	0 - 5 - 5
of a fact family.	This is the fa	ct family for th	<u>ne numbers 3</u>	, <u>5, and 8.</u>

Complete the facts for each family.

2 + 7 =	7 + 2 =	9 - 2 =	9 - 7 =
3 + 4 =	4 + 3 =	7 - 3 =	7 - 4 =
4 + 5 =	5 + 4 =	9 - 4 =	9 - 5 =
1 + 6 =	6 + 1 =	7 - 1 =	7 - 6 =
6 + 4 =	4 + 6 =	10 - 4 =	10 - 6 =
5 + 2 =	2 + 5 =	7 - 5 =	7 - 2 =
1 + 8 =	8 + 1 =	9 - 8 =	9 - 1 =
7 + 3 =	3 + 7 =	10 - 7 =	10 - 3 =

Write the facts for the fact family 3, 6, and 9.





Practice counting 10

Look at the flower pots below. There are ten flowers in each pot. How many flowers are there in each row?

20

30



Write the missing numbers as you count backward by tens.



67891234





Each rod below is divided into ten boxes. What is the total number of boxes in each row?

+	=	
+	=	
+	=	

Add ten more to each number. Then write the sum.

10	20	40	30	100
+	+	+	+	+
50	60	70	90	80
+	+	+	+	+

Write the total number of boxes in each group of rods.



#### Practice making ten.

Circle the number that, when added to the number in the flower, equals ten.



Fill in the missing numbers to complete the number sentences.



You have 6 pennies. How many more do you need to get 10 pennies?





Practice adding quickly.

#### Write the answers.

7	9	2	5	4 + 6
+ 2	+ 0	+ <u>3</u>	+ 4	
1	10	4 + 4	5	4
+ 2	+ 0		+ 3	+ 2
5	6	3	5	9
+ 2	+ 3	+ 3	+ 0	+ 1

Write the missing number.

+ 6 = 10	2 + () = 8	6 + 9
+ 1 = 8	+ 5 = 7	3 + () = 7
0 + = 10	4 + ( ) = 6	+ 4 = 8

Write the number sentence to match the pictures.



# Adding Two-Digit Numbers

GOAL

Learn to use a number line to add two-digit numbers. Count on ones, then leap in tens.

Use the number lines to answer the equations in each row.

13	14 15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
+	13 - 12			14 + 13	4 3			2 + 1	1 1			1' + 1(	7			1 + 2	1 1	
20	21 22	23	24	25	26	27	28	29	30	31	32	33	34	35	36			
+	24 - 12			21 + 11	1 [			23 + 10	3			2: + 1(	5			2 + 1.	03	
28	29 30	31	32	33	34	35	36	37	38	39	40	41	42					
+	30 - 12			28 + 10	3 )			3+1	1 1			3( + 1(	) )			2 + 1	9 0	

Use the counting blocks to solve the equations.

14



# Adding Numbers Horizontally



Use the counting blocks to add ones, then add tens. Write the answer.



Find the answer to each problem.

25 + 31 =	42 + 23 =	65 + 24 =	33 + 51 =
75 + 23 =	43 + 16 =	18 + 11 =	55 + 33 =
35 + 14 =	21 + 43 =	16 + 13 =	70 + 20 =

Draw blocks of tens and ones to show 13 + 34. Write the answer.

34567891234<u>56</u>78



GOA

16

Practice addina	Add the ones,	then the tens.	Regroup and add.
vertically.	Tens Ones 7  4 + $1  2$ - $6$	Tens Ones 7  4 + 1  2 8  6	$     \begin{array}{r}       1 \\       6 \\       2 \\       + \\       1 \\       9 \\       \overline{8} \\       1     \end{array} $

Add the ones, then add the tens in each equation. Write the answer.

6 3	4 5	1 4	3 5 + 3 1	5 4
+ <u>3 1</u>	+ <u>2</u> 0	+ <u>1 4</u>		+ <u>2 2</u>
7 5 + 2 3	1 8 + 2 0	1 4 + 8 2	7 4 + 1 1	5 0 + 3 2

Add the ones, and regroup your answer as tens and ones. Then add the tens to solve each equation.

5 3	4 8	1 6	6 2	4 4
+ <u>3 8</u>	+ <u>3 2</u>	+ <u>1 4</u>	+ <u>1 9</u>	+ <u>4</u> 7
55	39 + 33	2 8	4 6	1 7
+ <u>18</u>		+ <u>1 4</u>	+ <u>2</u> 9	+ <u>4 6</u>

Write the answer to each equation. Shade the shapes where the answer is 79.



# Problem Solving (Addition)

Solve real-life problems with addition.

Read each story. Then, write the equation and solve the problem.

Mr. Lopez sells apples. He has 4 baskets of 10 apples, and another 8 loose apples. How many apples does he have in his store?



Mom is making apple pies. She has a basket of 10 apples. She buys another basket of 10 apples and another 3 single apples. How many apples does she have now?



Paul is selling muffins at the school bake sale. He sells 24 muffins in the morning and 21 in the afternoon. How many muffins did he sell in all?





+ = muffins

17

Write the answer. Then draw pictures of objects to match the number sentence. 11 + 12 =

## 345678912345678912

GOAL





Write the number sentence for each row.



How many mice are there in all? Draw a line through the ten you are taking away, then complete the number sentence.



## Subtraction Action

Practice subtracting quickly.

Write the answers to these subtraction problems.

10 - 7	9 - 3	7 - 5	10 - <u>2</u>	8 - <u>4</u>	
9 - 6 3	5 - 3	6 - 1	9 - 4	4 - 4	
3	7 - 2	6 - 3	10 - 5	2 - 2	

Fill in the missing number in each subtraction problem.

- 6	=	2	—	7	=	1	<u> </u>	2	=	2
- 6	=	4	—	7	=	2	- (	8	=	2

Complete the number sentences. Shade in the animal that has a number sentence with an answer less than 5.



Practice subtracting using a number line. Take away the ones and then tens.

Count backward on the number lines to solve the equations in each row. 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 -15 -114 2 3 5 4 1 -10 -10 -11 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 8 5 8 0 8 3 -12 -10 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 6 5 6 5 70 6 2 64 -12 -10 -11 -1 2 -20

Draw dots in the boxes to show 22 - 12 = 10.





## Subtract Ones and Tens



Use the counting blocks to subtract the ones. Then subtract tens. What is the difference?



Complete the number sentences, then match each answer to a letter in the key. Arrange the letters in the same order as the answers to finish the secret message.







Practice subtracting vertically.	Subtract the ones, Tens Ones 7  4 $-1  \frac{2}{6}$	then th Tens 7 <u>- 1</u> 6	$\begin{array}{c} \text{ne tens.} \\ \text{Ones} \\ 4 \\ \underline{2} \\ 2 \end{array}$	Regrou	19 and subtract. 4 13 <i>5 3</i> - <u>1 4</u> <u>3 9</u>
Find the diffe	rence in each subtr	action p	roblem.		
4 8 - <u>3</u> 0	4 5 - <u>1</u> 5	8 8 - <u>7 7</u>		5 4 3 3	8 6 - <u>5 4</u>
8 9 - <u>5 4</u>	3 4 - 1 3	52 - <u>31</u>	- 2	7 4 2 3	9 6 - <u>3 5</u>

Find the difference by regrouping. Add 10 more to the ones. Make the tens less by 1. Subtract the ones and then the tens.

72		5 3	65	<u>84</u>
- <u>54</u>		- <u>2 6</u>	- <u>47</u>	- <u>67</u>
55	$3 \ 6 - 1 \ 7$	75	4 4	65
- <u>16</u>		- <u>46</u>	- <u>2</u> 7	-49

Draw balloons to show this subtraction sentence. Then write the answer. 17 - 12 =

## <sup>22</sup> 12345678912345678912

# Problem Solving (Subtraction)

Solve real-life problems with subtraction.

Read each story. Solve the problem.

Amy has 65 pages to read for homework. She has already read 31 pages. How many pages does she have left to read?

- pages





It is 32 miles to the airport. Mr. Miller has already driven 21 miles. How many more miles does Mr. Miller need to drive to get to the airport?

(-) = (-) miles

Juan has a list of 21 items to buy at the store. He has already found 11 of the items. How many more items must he find?

- = items



Find these words hidden in the puzzle. Go across or down.

Take away		Diff	erence
Subtract	М	inus	Equal

C	Y	М	Ι	0	S	Т	J	Н	S
Т	W	V	F	Р	U	L	Κ	Ζ	Т
U	A	0	E	G	В	D	Х	S	А
Η	М	А	S	V	Т	Y	Ι	U	K
D	Ι	F	F	E	R	E	Ν	С	Е
R	N	Е	S	Q	А	D	G	0	А
K	U	L	Q	U	С	Х	С	В	W
	S	Ι	0	А	Т	Κ	Q	D	A
E	S R	I P	O K	A L	T I	K V	Q F	D J	A Y

3456<u>78912345678</u>





Are the groups of objects in each row equal? Circle "yes" or "no."



Circle three equal groups. How many cookies are there in each group?



cookies in each equal group

24

# Counting Groups

Practice counting equal groups.

Count the number of objects in each group, then write the number on the chart below. Are the groups equal? Write "yes" or "no."



Circle two equal groups of butterflies.





Draw 18 small flowers. Place them in 3 equal groups.



# Make Equal Groups

Practice splitting objects into equal groups.
14 hearts can be divided into two equal groups.
Look at the hearts in each row. Follow the directions.
Make three equal groups.
$\bigcirc \bigcirc $
Make three equal groups.
$\bigtriangledown$
Make two equal groups.
$\bigtriangledown \ \square \ $
Make two equal groups.
$\bigtriangledown$
How many equal groups of stars can you make?
$\therefore$
2 groups of stars 4 groups of stars 5 groups of stars
12345678912345678912 27



Practice measuring lengths.



The pencil is 4 in. long.

How long is each object? Write the length of each object.



How many centimeters long are these objects?



# Adding Lengths

29



Use a ruler to measure each piece of rope in inches, then add the lengths.



Use a ruler to measure each piece of rope in centimeters, then add their lengths together.

# $\star$ Subtracting Lengths

Practice subtracting lengths. Find out how much longer one object is than another.



Use a ruler to measure each snake. How much longer is the snake on top?



Karen had a piece of yarn. It was 4 in. long. She cut off 1 in. of it. How much was left?

() in. – () in. = () in. left

Jim's fishing line was 10 in. long. Two inches of it snapped off. How much line was left?

() in. – () in. = () in. left

30





Practice solving real-life length problems with addition and subtraction.

Read each story. Then add or subtract the lengths to solve the problems.

Tom and Jason measured the flowers they found. Tom's flower measured 10 in. while Jason's was 8 in. long. What was the difference in the lengths of the flowers?

Jess bought a piece of ribbon that was 11 in. long. Mary bought one that was 6 in. long. How long were the two pieces altogether?

Maria's colored pencil was 9 in. long. Juan's colored pencil was 6 in. long. How much longer was Maria's pencil than Juan's?

Maya watched an ant crawl 3 in. Then the ant crawled 7 in. more. How many inches did the ant crawl altogether?

Linda's drawing paper was 12 in. long. Sue's paper was 10 in. long. How much longer was Linda's paper than Sue's?

Anita has a piece of string that is 24 cm long. Can she make two equal pieces from this piece of string? Yes No

How long would each piece be? cm



GOAL

#### Practice telling the time.

Fill in the boxes with the time shown on each clock.



Draw the hands on each clock to show the time.



# Writing the Time $\bigstar$

Practice writing the time in numbers and in words.

Look at these clocks. Write the time as shown on each of them in numbers and words.



What is the time shown on each digital clock? Write it in numbers and words.



12345678912345678912

# ★ Differences Between Times

GOAL

Review the differences in time.

There is a half-hour difference in the time on these clocks.



Look at the time on the first clock in each row. Then look at the time on the second clock. What is the difference in time between the clocks? Circle the correct answer.



How long might each activity take? Circle the correct answer.



34

washingyour hands2 minutes2 hours



Circle the activity that takes longer to do.



# Problem Solving with Time

Practice solving real-life time problems.

Figure out the answer to each problem.



Matt must do three small jobs. Each job will take about 15 minutes. Then Matt wants to meet Uncle Fred for lunch at 12:00. It is a 1 minute bike ride to Uncle Fred's. Matt starts his jobs at 11:00. Will Matt get to lunch by 12:00? Circle "yes" or "no."



Yes

#### No

35

### 2345678912345678912

GOAL



36

Practice using and counting money.

Draw a line to match each toy with the correct amount of money.

ut cu



Count the money below, then look at the price of the two items. Circle the item that you can buy with the money below.





Practice adding money.

Bob earned money for doing different chores. How much did he earn? Write each amount.



Help Bob to get to the toy store. Follow the path that shows in order the amounts he earned above.





Practice subtracting money.

Look at the price of each food item that you buy. Figure out the change you will receive.

27¢



Find these words hidden in the puzzle. Go up, down, left, or right.

Buy	Penn	y Ni	ckel	Dime
Cho	inge	Cent	Сс	oin

С	J	L	Y	U	В
Н	Р	E	Ν	N	Y
А	R	K	А	Т	С
Ν	Р	С	Ν	N	0
G	D	Ι	М	E	Ι
E	D	N	В	С	N

Change is 3¢

#### 38

## Solve Money Matters

Practice solving money problems.

Read each problem and solve it. Kim has  $65 \notin$  in her pocket. She takes out these coins.



How much does she still have in her pocket? Circle the answer.

25¢	15¢	10¢

Amy has  $53 \notin$ . Her mother gives her  $32 \notin$  more. How much does Amy have altogether?

Jill has  $55 \notin$ . She earns  $20 \notin$  more. How much money does Jill have now?

Can Jill buy $65 \notin$ Will Jill receive change?YesNoYesNo

How much?



Does he have enough money?

Explain

Yes No

You have 57 ¢. Based on this price list, which two items could you buy?

and	or	Glue	30¢
and	or	Eraser	13¢
and	or	Marker	22¢
and		Scissors	40¢



# ★ Describe 2-D Shapes

GOAL

Practice describing 2-D or plane shapes by the number of corners and sides.

A square has 4 sides and 4 corners.



Look at these shapes. Count the total corners and sides in each shape.



Look at each shape. Draw another one that is of the same size and shape.





Mrs. Walters buys a rug that is shaped like an oval. Which one did she buy? Circle it.









L.

Practice drawing lines to divide things into two equal parts. This is a line of symmetry.

Draw a line of symmetry for each shape.



Draw a line of symmetry for each letter.



Draw two lines of symmetry for each shape.







# Describe 3-D Shapes

Cube

Cone

42

Learn more about 3-D shapes by matching and counting the faces.

Sphere







Shade in the figures in each group that have the same shape.



Circle the objects that have the same shape as the first figure in each row.



How many flat faces does each figure have?





Practice using position words.



Read the sentences. Choose the correct word or words from the box to complete each sentence.



Look at the position of each shape. Circle the answer to each question.





GOAL

Practice using pictographs.

Look at each pictograph. Then answer each question.

Kinds	of	Books	Children	Like	to	Read	

1 book = 1 child

Animal				
Funny				
Scary				
How many children like to read animal books?				
Which kind of book do most	children like to read?			

Do more children like to read funny books or scary books?

Ice-cream Cones Sold

1 ice-cream cone = 3 sold

Vanilla	
Chocolate	
Strawberry	
Mint	Ŵ
Bubble gum	

How many strawberry ice-cream cones were sold?

Which ice-cream flavor sold the most?

How many ice-cream cones were sold in all?

Which flavor sold the fewest number of cones?

How many more vanilla cones were sold than bubble gum cones?









Learn to use tables.

Look at each table. Answer the questions that follow.

#### Children's Favorite Snacks

Fruit	
Crackers	
Cookies	
Trail mix	1111

How many children like fruit best? Which snack do most children like best? Which snack do fewest children like best?

How many children like cookies best?

#### Color of Children's Eyes

Blue	1447
Hazel	
Green	
Brown	

How many children does the table show altogether?

How many children have blue eyes?

Which eye color do more children have—brown or hazel?

6789123

Which eye color do fewest children have?





= 1 child

I





Practice reading and plotting graphs.

A pet store checked how many ferrets were sold each month. Use the line graph to answer each question.



The chart shows how many inches Barb has grown since she was 2 years old. Place a small dot on the graph for each age and height on the chart. Then connect the dots with lines.



1234567891234567891

# Bar Graphs 🛧

Make and understand bar graphs.

Count how many balls there are of each color in the basket. Shade in that number of boxes on the graph.





Which color are most of the balls?

Red

Todd walked to town with his mother. He counted shapes he saw along the way. He made a table to show what he saw.

Shapes Todd Saw

Circle	LIHT 111
Square	H++1
Rectangle	
Triangle	

Look at the table, then shade in the number of boxes on the graph below to show how many of each shape Todd saw.





# Certificate

Congratulations to



for successfully finishing this book.

## GOOD JOBI

You're a star. A A A A A

Date

## Answer Section with Parents' Notes

This book is intended to assist children studying math at the second-grade level. The math covered will be similar to what children are taught before and during second grade.

#### Contents

By working through this book, your child will practice:

- understanding the place value of hundreds, tens, and ones;
- recognizing the concept of odd and even;
- adding and subtracting 10 more;
- adding and subtracting 2-digit numbers;
- understanding, counting, and splitting equal groups;
- measuring, adding, and subtracting lengths;
- understanding differences between times;
- adding and subtracting money;
- describing 2-D and 3-D shapes;
- recognizing and using position and direction words;
- using picture graphs, tables, line graphs, and bar graphs.

#### How to Help Your Child

Your child's reading ability may not be up to the level of some of the more advanced math words, so be prepared to assist. Working with your child also has great benefits in helping you understand how he or she is thinking and reasoning, so that areas of difficulty for your child can be more easily determined.

Often, similar problems and concepts will be worded in different ways such as "count one more" and "which has more?" This is intentional and meant to make children aware that there is more than one way to express the same basic concepts.

When appropriate, use props to help your child visualize solutions for example, have a collection of coins to use for the money problems, or find examples of objects to measure around your house.

Build children's confidence with words of praise. If they are getting answers wrong, then encourage them to try again another time.

Good luck, and remember to have fun!

େ ଚ		int up to 100		<u> </u>	<u> </u>	
PL	with words c	ind numbers	< 25	< 26	< 27 )-	<28
,	Write the mi	ssing numbe	rs on the kite	es in each rov	v.	
	32	33	34	35]	36	37]
	Z	1	1	$\overline{\}$	Z	$\mathcal{A}$
	121	[na]	LAE ]	14	[A]]	101
	45	44	45	40	4/	40
		$\sim$	$\sim$	~	~	$\sim$
	195	196	197	198	199	100
1	5 Fill in also mi		• • • • •	•h ===== h== =h==		
(	Thirty	T	wenty	Forty	,	Seventy
	Tw	enty-six	One l	undred	Twenty-	nine
	Ten	Twenty	Th	irty	Forty	Fifty
	Sixty	Seventy	Eigl	hty N	Jinety	One hundred
	Twenty-five	Twenty-si	x Twenty	-seven Twe	nty-eight	Twenty-nine
1	Read the wor	ds. Write th	e correct nur	nber.		
1	Eighty-five	35	Ninety-n	ine 99	H	ifty-six 56
		22.4	C 70	04.20	AFC	70.04.2
	4 1	Z 5 4 3	2018	2123	4367	78912

Take children outside to notice house numbers, mailbox numbers, or street numbers. Invite children to say if the number is greater than or less than a number they saw before.

		Place	Value	$\star$	
Learn the hu and ones plac	ndreds, tens, 35 ces in a number.	7 (3) Hundreds	5 Tens	(7) Ones	GOAL
Find the place we there are in eac	ralue. Write how ma h number.	ny hundreds, tens,	and ones		
Hundreds	Tens Ones	Hundreds	Tens	Ones	
			4	5	
Hundreds	Tens Ones	Hundreds	Tens	Ones	
	• • •		(5)		
Circle the place	value of the underli	ned number.			
5 hundreds	151 5 tens 5 ones	3 hundreds	19 <u>3</u> 3 tens	3 ones	
12345	6789123	34 <b>5</b> 678	912	5	

Let children practice creating patterns of blocks or other shapes, showing the hundreds, tens, and ones in different three-digit numbers. Check the patterns carefully for accuracy.

Learn to change the ones. Ac	dd 5 ones to 22 (27)	Learn to change The the tens. 67	value of the circled num Sixty ®9 Eigh	iber is ity 1(1)5
Follow the instructions. Write the new new	umber.	Write the number and then t	he word in each row	
Add 3 ones to 25 (28)	Add 5 ones to 43 (48)	white the number that there t	Number	Word
Add 9 ones to 33 (42)	Add 7 ones to 72 (79)	The value of 4 in 47 is	(40)	Forty
Subtract 1 one from 91	Subtract 4 ones from 44 (40)	The value of 8 in 183 is	(80)	Eighty
Subtract 2 ones from 66 (64)	Subtract 4 ones from 22 (18)	The value of 6 in 62 is	(60)	Sixty
Write the new number and the value that	it was added or taken away. Value	The value of 2 in 126 is	(20)	Twenty
Change the 4 in 84 to 8 (88) Th	e new number is greater by (4)	The value of 5 in 150 is	(50)	Fifty
Change the 7 in 67 to 9 $(69)$ Th	e new number is greater by (2)	Write the answer as a numbe	r and as a word in each Number	row.
Change the 5 in 75 to 7	the new number is greater by $\begin{pmatrix} 2 \\ 2 \end{pmatrix}$	If you change 21 to 51, how r value did you add?	nuch	Thi
Change the 6 in 66 to 1 (61) Th	e new number is less by 5	If you change 43 to 83, how t	nuch	For
Change the 9 in 39 to 5 (35) Th	e new number is less by (4)	If you change 65 to 35 how i	much	
Change the 8 in 48 to 3 (43) Th	e new number is less by 5	value did you subtract?	(30)	Thi
4 11 2 5 2 7 1 11 2		Circle the numbers in which	the 2 has a value of 20.	

Encourage children to always look to the ones column first when adding. This approach will be useful as they begin to add together two-digit numbers. Ask children to identify the number of tens in a number. Be sure they understand that writing "tens" in numeric form (10s) will include a 0, yet the word form will not include the word "zero."



Gather up handfuls of buttons or coins, and ask children to sort each handful into groups of two. This will help reinforce the understanding that even numbers are always multiples of two, and that odd numbers are multiples of two with one more remaining.

10		★ Counting in Tens	
	GOAL	Practice counting by tens.	
	I	Look at the flower pots below. There are ten flowers in each pot. How many flowers are there in each row?	(40)
	-	***	(70)
		****	(90)
		\$\$\$\$	100
	1	Write the missing numbers as you count backward by tens.           100         90         80         70         60         50         40         30         20         1	0) 0
		0 12345678912345678	3912

You can reinforce counting in tens by using dimes. Explain that a dime is worth  $10 \, \text{¢}$ . Then help children use dimes to practice counting by tens.

		Fact Fam	ilies ★
Find out how numbers are part of a fact family.	3 + 5 = 8 This is the fo	5 + 3 = 8  8 - 3 = 3	= 5 8 – 5 = 3 ers 3, 5, and 8.
Complete the facts for	or each family.		
2 + 7 =	7 + 2 = 9	9 - 2 = 7	9 - 7 = 2
3 + 4 = (7)	4 + 3 = (7)	7 - 3 = 4	7 - 4 = 3
4 + 5 = (9)	5 + 4 = (9)	9 - 4 = (5)	9 - 5 = 4
1 + 6 = 7	6 + 1 = (7)	7 - 1 = 6	7 - 6 = 1
6 + 4 = (10)	4 + 6 = (10)	10 - 4 = 6	10 - 6 = 4
5 + 2 = (7)	2 + 5 = (7)	7 - 5 = (2)	7 - 2 = 5
1 + 8 = (9)	8 + 1 = 9	9 - 8 = 1	9 - 1 = 8
7 + 3 = (10)	3 + 7 = (10)	10 - 7 = (3)	10 - 3 = 7
Write the facts for th	ne fact family 3	, 6, and 9.	
$\begin{pmatrix} 6 \end{pmatrix}$ + $\begin{pmatrix} 3 \end{pmatrix}$ = $\begin{pmatrix} 0 \end{pmatrix}$	<b>a</b> )	$\left(\begin{array}{c} \mathbf{q} \end{array}\right) - \left(\begin{array}{c} 6 \end{array}\right) = \left(\begin{array}{c} 3 \end{array}\right)$	)
(3) + (6) = (6)	9	$\left(\begin{array}{c} \mathbf{q} \end{array}\right) - \left(\begin{array}{c} 3 \end{array}\right) = \left(\begin{array}{c} 6 \end{array}\right)$	)

9

Divide ten or more beans into two groups, and invite children to write the addition sentence for the two groups of beans. Repeat, varying the size of the groups. Then put all the beans together and remove between one and nine beans, asking the child to write the subtraction sentence. Repeat, removing different numbers of beans each time.

11	Adding Ten More ★
	Add ten more. $10$ $10$ $10$ $10$ $10$
	Each rod below is divided into ten boxes. What is the total number of boxes in each row? + + + + + + + + + + + + + + + + + + +
	+ 50)
	+ = (80)
	Add ten more to each number. Then write the sum.
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Write the total number of boxes in each group of rods.
	$3 \text{ ten-box rods} = (30) \text{ boxes} \qquad 6 \text{ ten-box rods} = (60) \text{ boxes}$
	12345678912345678912

Write the numbers 10, 20, 30, 40, 50, 60, 70, 80, and 90 on separate index cards. Arrange the cards in a pack and have children pick out a card. Ask them to show the number amount they have picked in dimes and say how many tens are there in that number.



Let children practice making groups of ten pennies. Help them to see the various number combinations that make up a total of ten.

		Q	uick Ado	ding ★	
Practice of	dding quickly.				GOAL
Write the ar 7 + 2	swers. 9 + 0	2	5	4	
<u>q</u>		5	9	10	
$+\frac{1}{2}$	$\frac{+0}{10}$	$+\frac{4}{8}$	$+\frac{3}{8}$	$+\frac{4}{6}$	
+ <u>2</u> 7	$\frac{6}{9}$	$+\frac{3}{6}$	5 + 0 5	$\frac{9}{+1}$	
Write the m $(4)$ + 6	issing number. = 10	2 + 6 = 8	6	5 + (3) = 9	
(7) + 1	= 8	(2) + 5 = 7 4 + (2) = 6	3	3 + (4) = 7	
Write the nu	imber sentence to	o match the pic	tures.		
(2) + (8	3) = (10)	+	1 1 1	_	
(3) + (5	<b>b</b> ) = (8)				
1234	56789	12345	6789	12 13	

Practice quick addition facts with your child. Children should attempt to use mental math with the basic addition facts.



Draw a number line on a piece of paper. Say an addition sentence, and let children hop along the number line to find the sum. For each addition sentence, be sure that they understand where to begin on the number line.

Remind children to first add ones, and then add tens. Help children by having them first identify the ones in a number sentence and adding them. Next, they can identify the tens and add them.

Practice adding vertically.	Add the Tens O 7 $+ \frac{1}{8}$	ones, then t nes Tens 4 7 2 + <u>1</u> 6 8	$\begin{array}{c c} \text{ne tens.} & Re \\ Ones \\ 4 \\ 2 \\ 6 \end{array}$	egroup and add. $ \begin{array}{c} 1 \\ 6 \\ 2 \\ + \\ 1 \\ 9 \\ 8 \\ 1 \end{array} $
Add the ones, the formula $\frac{6}{9}$ $\frac{3}{1}$ $\frac{1}{9}$ $\frac{1}{4}$	then add the to $+\frac{4}{2}\frac{5}{6}$	ens in each ea + <u>1 4</u> + <u>1 4</u> <u>2 8</u>	uation. Write + $\frac{3}{6} \frac{5}{6}$	the answer. $ \begin{array}{r} 5  4 \\ + \begin{array}{r} 2  2 \\ \hline 7  6 \end{array} $
$+\frac{7}{2}\frac{5}{3}$	$+\frac{1}{2}\frac{8}{3}\frac{8}{8}$	+ <u>8 2</u> 9 6	$+\frac{7}{8}\frac{4}{5}$	$+\frac{5 0}{8 2}$
Add the ones, a Then add the te $\frac{1}{5}$ 3 $\frac{3}{9}$ 1	nd regroup yc ns to solve ec $\frac{1}{4} \frac{8}{8} + \frac{3}{8} \frac{2}{0}$	but answer as the equation. $ \begin{array}{r} 1 \\ 1 \\ 6 \\ + \\ 1 \\ 4 \\ 3 \\ 0 \end{array} $	tens and ones. $ \begin{array}{r} 1 \\ 6 \\ 2 \\ + \\ 1 \\ 9 \\ 8 \\ 1 \end{array} $	$+\frac{4}{4}\frac{4}{7}\frac{7}{9}$
$     \begin{array}{r}       1 \\       5 \\       5 \\       + \\       1 \\       8 \\       7 \\       3     \end{array} $	$ \begin{array}{r} 1 \\ 3 \\ 9 \\ + \\ 3 \\ \overline{7} \\ 2 \end{array} $	$     \begin{array}{r}       1 \\       2 \\       8 \\       + \\       1 \\       4 \\       4 \\       2     \end{array} $	$     \begin{array}{r}       1 \\       4 & 6 \\       + \underline{2 \ 9} \\       \overline{7 \ 5}     \end{array} $	$     \begin{array}{r}       1 \\       1 \\       7 \\       + \\       4 \\       6 \\       \overline{3}     \end{array} $
Write the answe $\begin{bmatrix} 3 & 7 \\ + & 4 & 2 \\ \hline 7 & 9 \end{bmatrix}$ (+	T to each equal $5 \frac{2}{7} \frac{7}{9}$	ation. Shade the formula $\left( \begin{array}{c} 3 & 3 \\ 5 & 9 \\ \hline 9 & 2 \end{array} \right) + \left( \begin{array}{c} 4 \\ - \\ 9 \\ \hline 9 \\ 2 \end{array} \right)$	$\begin{array}{c} \text{for the shapes when } \\ 6 1 \\ \frac{1}{7} 8 \\ 7 9 \end{array} \left( + \frac{1}{5} \right) \\ \end{array}$	e the answer is 79. $ \begin{array}{c} 3\\ 5\\ 8 \end{array} $ $ \begin{array}{c} 2 & 4\\ + & 5 & 5\\ \hline 7 & 9 \end{array} $
16 12	3450	57891	2345	678912

Show children how to draw a vertical line separating the tens and ones columns when adding two-digit numbers vertically. Help children understand that if adding the ones results in ten or more ones, they need to regroup those ones before adding the tens.

Problem Solving (Addition) ★
Solve real-life problems with addition.
Read each story. Then, write the equation and solve the problem.
Mr. Lopez sells apples. He has 4 baskets of 10 apples, and another 8 loose apples. How many apples does he have in his store?
(2222) (2222) (22222) (22222) (22222)
(10) + (10) + (10) + (10) + (8) = (48) apples
Mom is making apple pies. She has a basket of 10 apples. She buys another basket of 10 apples and apother 3 single apples
How many apples does she have now?
0 10 + 10 + 3 = 23 apples
Paul is selling muffins at the school bake sale. He sells 24 muffins in the morning and 21 in the aftermoon. How many muffins did he sell in all? $(24) + (21) = (45)$ muffins
Write the answer. Then draw pictures of objects to match the number sentence.
11 + 12 = 23 Answers may vary
හිරිරී රී දී - හිරිරිරි +
12345678912345678912 17

Provide children with small plastic toys, and let them use the toys to create and then solve their own word problems involving addition.



Ask children to point to today's date on the calendar. Then ask them to take away, or count back, ten days. Repeat as many times as you wish, choosing different starting dates.



Practice quick subtraction facts with your child. As with basic addition facts, children should attempt to use mental math with basic subtraction facts.

ΔĂ.	Practice subtracting using a number line. Take away the ones and then tens.					
	Count backw 24 25 26 27	ard on the num 28 29 30 3	nber lines to so 1 32 33 34	lve the equation 35 36 37 38	ns in each row. 39 40 41 42	
	$-\frac{4}{1}\frac{2}{1}$	$-\frac{3}{2}$ 5 $-\frac{1}{2}$ 0 $\frac{3}{2}$ 5	$-\frac{3}{2}\frac{9}{2}$	$-\frac{3}{2} \frac{7}{6}$	$-\frac{4 \ 1}{1 \ 0}$ 3 1	
	65 66 67 68	69 70 71 72	73 74 75 76	77 78 79 80	81 82 83 84 85	
	$-\frac{8 \ 0}{1 \ 0}$ 7 0	$-\frac{8}{1}\frac{5}{7}\frac{5}{2}$	$-\frac{7}{1}\frac{5}{0}$	$   \begin{array}{r}     7 & 6 \\     -1 & 1 \\     \hline     6 & 5   \end{array} $		
	50 51 52 53	54 55 56 57	58 59 60 61	62 63 64 65	66 67 68 69 70	
	$-\frac{7 \ 0}{2 \ 0}$ 5 0	$-\frac{6}{1}\frac{2}{2}$	$     \begin{array}{r}       6 5 \\       -1 0 \\       \overline{5 5}     \end{array} $	$     \begin{array}{r}       6 5 \\       -1 1 \\       \overline{5 4}     \end{array} $	$-\frac{6}{1}\frac{4}{2}$	
	Draw dots in	the boxes to sh	ow 22 - 12 =	10.		
		••• ••• •••	• • • • • • • • • •		••••	

Have children place a plastic counter at the end of a number line. Children should roll a dice, and move the counter back along the number line by the number shown on the dice that they have rolled. Ask them to then write the corresponding subtraction sentence.



Again, remind children to first subtract the ones, and then subtract the tens. Help children to do this by first identifying the ones in a number sentence, then subtracting them. Next, help children identify the tens and subtract them.



21

Help children draw a vertical line separating the tens and ones columns when subtracting two-digit numbers vertically. Remind children that if there are fewer ones in the top number than in the bottom number, they must regroup one ten as ten ones first. Ask children to solve each subtraction word problem. Then let them explain how they got their answers and give reasons for their thinking.



Let children fold a piece of paper in half and cut out a design. Do not cut on the fold. When children open up their folded paper designs, explain that they have two matching or equal parts, one on each side of the fold. The fold line will show a line of symmetry.

)	Counting Groups ★			
	Practice counting equal groups.	GOAL		
	Count the number of objects in each group, then write the number on the chart below. Are the groups equal? Write "yes" or "no."			
	Group 1 Group 2 Group 3 Are they equal?			
	3.			
	Circle two equal groups of butterflies. Answers may vary			
	12345678912345678912 25			

Let children create their own equal groups of objects by counting out bottle caps, pennies, beans, or any other small item found around the house.

26 🖈 Drawing Equal Groups	27 Make Equal Groups ★
Practice drawing equal groups.	Practice splitting objects into equal groups.
Divide this row of dots into three equal groups.	14 hearts can be divided into two equal groups.
	Look at the hearts in each row. Follow the directions. Make three equal groups.
Divide this row of dots into two equal groups.	(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
	Make three equal groups.
Divide this row of dots into four equal groups.	Make two equal groups. $\heartsuit \heartsuit \heartsuit$
Divide this row of dots into four equal groups.	Make two equal groups.
	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
Draw 18 small flowers. Place them in 3 equal groups.	How many equal groups of stars can you make? ☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆
26 12345678912345678912	12345678912345678912 27

2

Encourage children to trace small shapes or figures to practice drawing equal groups. Have them circle each equal group in their drawing. Give children a handful of popsicle sticks or other counters. Ask them to find out how many equal groups the sticks or counters will split into, and if any stick or counter will be left over.

Practice measuring lengths.	Practice lengths
How long is each object? Write the length of each object	Lise a rule
How long is each object. While the length of each object.	
	(4) in.
5 in. long	2220
	(6) in.
$\underbrace{\lim_{n \to \infty} \frac{1}{n} \lim_{n \to \infty$	Use a rule lengths to
3 in. long	(8) cm
How many centimeters long are these objects?	6 cm
Einaufuntaistuntaituntaituntaituntaituntaituntaituntaituntaituntaituntaituntaituntaituntaituntaituntaituntaitu	
(9) cm long	4 cm
	Using a ru Using a ru
(2 1 21 21 21 21 21 21 21 21 21 21 21 21	Why are t
<b>b</b> cm long	B

Encourage children to use rulers to measure the length of objects in your house or neighborhood. Make sure that they use the terms "inches" and/or "centimeters" while recording their measurements.



Remind children that when they are adding lengths, they must always write the correct units of measurement (inches, centimeters, and so on) in the number sentence.



Children should be reminded that they must always write the correct units of measurement when they are subtracting lengths, as well. Encourage children to read problem-solving questions carefully, to first determine exactly what the question is asking. Then they should determine which operation they should use to reach the correct answer.



Use analog clocks to let children practice telling the time, both to the hour and to the half hour. They should understand that a whole hour has passed when the minute hand has swept around the whole clock. A half hour has passed when the minute hand has swept around half of the clock.

	Writing	the Time ★		
Practice writing the time in numbers and in words.				
Look at these clocks. Wr in numbers and words.	Look at these clocks. Write the time as shown on each of them in numbers and words.			
$\begin{pmatrix} 11 & 12 & 1 \\ 10 & & 2 \\ 10 & & & 3 \\ 8 & 7 & 6 & 5 \\ 8 & 7 & 6 & 5 \\ \end{pmatrix}$	$\begin{pmatrix} 11 & 12 & 1 \\ 10 & & 2 \\ 3 \\ 8 & 7 & 6 & 5 \\ \hline & & & & & \\ 7 & 6 & 5 \\ \hline & & & & & \\ & & & & & \\ & & & & & &$	$\begin{pmatrix} 11 & 12 & 1\\ 10 & & 2\\ 9\\ 8 & 7 & 6 & 5 \\ 8 & 7 & 6 & 5 \\ \end{pmatrix}$		
6): 45)	(3): (45)	(7): (15)		
Six forty-five	Three forty-five	Seven fifteen		
$\begin{pmatrix} 11 & 12 & 1 \\ 10 & & 2 \\ 9 & & & 3 \\ 8 & 7 & 5 & 5 \\ \end{pmatrix}$	$\begin{pmatrix} 11 & 12 & 1 \\ 10 & & 2 \\ 9 & & & 3 \\ 8 & 7 & 5 \\ 8 & 7 & 5 \\ \end{pmatrix}$	$\begin{pmatrix} 11 & 12 \\ 9 \\ 8 \\ 7 \\ 5 \\ 4 \\ 5 \\ 4 \\ 5 \\ 4 \\ 5 \\ 4 \\ 5 \\ 4 \\ 5 \\ 4 \\ 5 \\ 5$		
8:30	3:30	(12) : (30)		
Eight thirty	Three thirty	Twelve thirty		
What is the time shown and words.	on each digital clock? W	rite it in numbers		
2:30	8:15	10:45		
(2): (30)	(8): (15)	(10) : (45)		
Two thirty	Eight fifteen	Ten forty-five		
12345678	9123456	78912 33		

Remind children to use a colon (:) between the hour and minute numbers when writing out times using numerals.

34 ★ Differences Between Times	35 Problem Solving with Time ★
Review the differences in time.	Practice solving real-life time problems.
There is a half-hour difference in the time on these clocks	Figure out the answer to each problem.
Look at the time on the first clock in each row. Then look at the time on the second clock. What is the difference in time between the clocks? Circle the correct answer.	Sal starts school in 15 minutes. At what time does Sal start school?
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	Josie feeds her cat at 10:20. How much time will pass before she feeds her cat? (20) minutes
How long might each activity take? Circle the correct answer.	You have 30 minutes to finish reading. At what time must you finish? (11): (45)
your hands (2 minutes) 2 hours 2 minutes (half hour)	$ \begin{pmatrix} 0 & 1 \\ 0$
Circle the activity that takes longer to do.	Matt must do three small jobs. Each job will take about 15 minutes.
	Then Matt wants to meet Uncle Fred for funch at 12:00. It is a 1 minute black ride to Uncle Fred's. Matt stars his jobs at 11:00. Will Matt get to lunch by 12:00? Circle "yes" or "no." $ \begin{array}{c}                                     $
34 12345678912345678912	12345678912345678912 35

Let children practice using a clock to identify a starting time before they carry out a simple task, such as tying a shoe. Then ask them to check the time when they finish. Encourage them to work out how much time has passed.

Propose various problem-solving time questions to children. Let them use a model clock to determine the answers. Be sure they use the correct terms (minutes or hours) with their answers.



Let children use various coins to show different amounts of money. Then ask questions like, "Who has more money?", "Who has less money?", "Who has 98¢?", and so on.



Children should practice adding money by solving problems. Examples include, "You have  $43 \phi$ , which includes four dimes and a few pennies. How many pennies do you have?", and "You have  $30 \phi$ . You only have nickels. How many nickels do you have?"



37

Write down a list of items for sale, each with a price. Tell children to pretend that they have a certain amount of money to spend. Then ask them to figure out which items they can buy with the money they have, and how much change they will have left over, if any.

Help children write simple problem-solving money stories. Have them read their stories aloud and solve them. Check their working methods carefully.



Invite children to think of five foods that have shapes similar to those they have learned about. Encourage them to draw a picture of each of those foods, and to write the name of the similar shape under each picture.



Help children cut from old newspapers and magazines pictures of objects that have symmetry. They can glue the pictures to a sheet of paper and draw lines of symmetry on them.



Give children some toothpicks and bits of modeling clay, and help them construct models of the 3-D shapes they have learned about.

Invite children to place solid shapes together in various arrangements: in rows, one on top of another, near one another, far from one another, and so on. Then ask them to describe each solid shape's position in relation to another shape.

Look at each pictograph. Th	hen answer each question.	
Kinds of Books Children Like to Read 1 book = 1 chil		
Animal		
Funny		
Scary	Ē.	
How many children like to	read animal books?	5
Which kind of book do mos	t children like to read?	Animal
Do more children like to rec	id funny books or scary books?	Funny
Ice-cream Cones Sold	1 ice-crea	im cone = 3 sold
17 - 11		
Vanilla	A A A A A	
Chocolate	8 8 8 8 8 8 8 8 8 8	
Chocolate Strawberry	<u> </u>	
Chocolate Strawberry Mint	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Chocolate Chocolate Strawberry Mint Bubble gum	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Vanilia       Chocolate       Strawberry       Mint       Bubble gum       How many strawberry ice-cr	Image: Constraint of the constr	6
Vanilla Chocolate Strawberry Mint Bubble gum How many strawberry ice-cr	eam cones were sold?	6 Chocolate
Vanilla Chocolate Strawberry Mint Bubble gum How many strawberry ice-cr Which ice-cream flavor sole How many ice-cream cones	ream cones were sold? the most? were sold in all?	6 Chocolate 45
Vanilla Chocolate Strawberry Mint Bubble gum How many strawberry ice-cr Which ice-cream flavor sole How many ice-cream cones Which flavor sold the fewes	ream cones were sold? the most? were sold in all? the number of cones?	6) Chocolate 45) Mint

Be sure that children pay attention to the key for each graph. On some graphs one image represents one person or object, while on others an image represents two or three people or objects. If needed, children can draw tally marks to help them count how many.

	Use a <sup>-</sup>	Table ★
Learn to use tables.		GOAL
Look at each table. Answer	the questions that follow.	
Children's Favorite Snacks		= 1 child
Fruit		
Crackers		
Cookies		
Trail mix	1447	
How many children like frui	t best?	3
Which snack do most childr	en like best?	Trail mix
Which snack do fewest child	Which snack do fewest children like best?	
How many children like coo	How many children like cookies best?	
Color of Children's Eyes		= 1 child
Blue	1441	
Hazel		
Green		
Brown		
How many children does the	e table show altogether?	14
How many children have bl	ue eyes?	5
Which eye color do more ch	ildren have—brown or hazel	? Brown
Which eye color do fewest cl	hildren have?	Green
123456789	123456789	912 45

Ask children to count the animals they see on a walk. Help them to keep a record of the types of animals they see and the number of each type. After the walk, invite children to make a table to show the data that they have collected. Ask them questions about the table.



Help children understand that a line graph is used to show information that changes over time. Explain that it is helpful to make a list of the information you want to show first, before plotting it on a line graph. Give children a sheet of graph paper. Help them to make a graph to show the different eye colors of family and friends. Ask them questions about what the graph is telling them.