LESSON 2·1   Number Stories
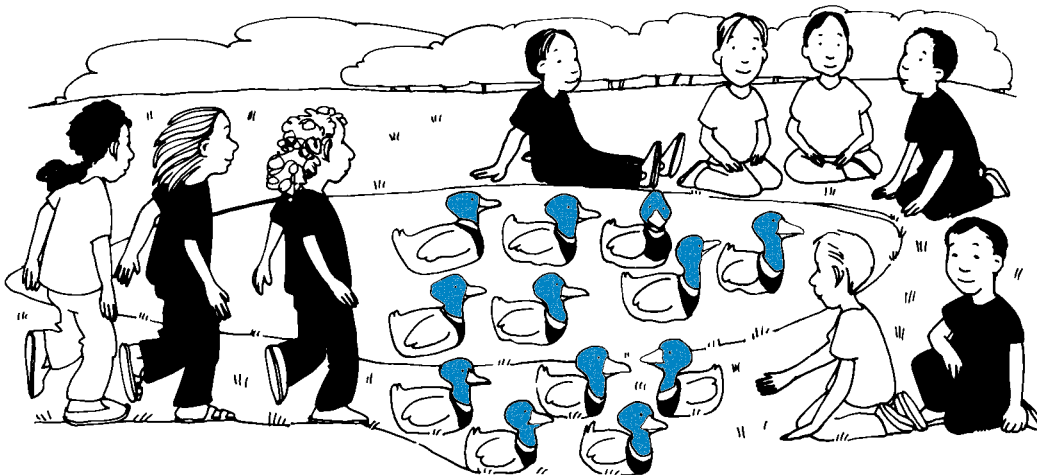

Write an addition number story about what you see in the picture. Write a label in the unit box. Find the answer. Write a number model.

Example: *7 ducks in the water. 5 ducks in the grass.*
How many ducks in all?

Answer the question: _12 ducks_
(unit)

Number model: _7_ + _5_ = _12_

Unit
ducks

Story: _____

_____

_____

_____

Unit

Answer the question: _____
(unit)

Number model: _____ + _____ = _____

Number-Grid Puzzles

Complete the number-grid puzzles.

Puzzle 1

20				
	28		58	
15				
	33			
			52	
11				

Puzzle 2

	349			
			378	
		357		
336				
			373	
332				
		361		
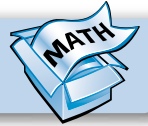
LESSON 2·1 Math Boxes

1. Six apples are red. Five apples are green. How many apples in all?

_____

Unit
apples

Number Model

_____

2. Use your calculator.

Show 14.
Broken key is ①.
Show 2 ways:

_____

_____

3. Fill in the blanks.

83, _____, 81, _____, _____, 78

4. Use $<$ or $>$.

$4 + 5$ _____ 10

12 _____ $7 + 4$

15 _____ $8 +$ _____

$6 + 7$ _____ $15 - 4$

MRB 9

5. Write the time.

____ : ____ ____

MRB 80
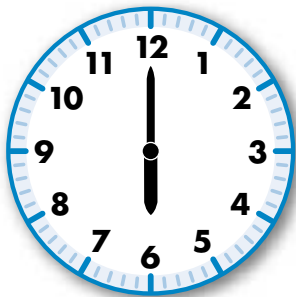
6. How much money? Fill in the circle next to the best answer.

Ⓐ $2.40   Ⓑ $11.45

Ⓒ $11.40   Ⓓ $2.45

LESSON 2·2

Facts Power Table

0 + 0	0 + 1	0 + 2	0 + 3	0 + 4	0 + 5	0 + 6	0 + 7	0 + 8	0 + 9
1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	2 + 9
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7	3 + 8	3 + 9
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6	4 + 7	4 + 8	4 + 9
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5	5 + 6	5 + 7	5 + 8	5 + 9
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4	6 + 5	6 + 6	6 + 7	6 + 8	6 + 9
7 + 0	7 + 1	7 + 2	7 + 3	7 + 4	7 + 5	7 + 6	7 + 7	7 + 8	7 + 9
8 + 0	8 + 1	8 + 2	8 + 3	8 + 4	8 + 5	8 + 6	8 + 7	8 + 8	8 + 9
9 + 0	9 + 1	9 + 2	9 + 3	9 + 4	9 + 5	9 + 6	9 + 7	9 + 8	9 + 9

LESSON 2·2 | **Distances on a Number Grid**

Example: *How many spaces do you move to go from 17 to 23 on the number grid?*

Solution: *Place a marker on 17. You move the marker 6 spaces before landing on 23.*

11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
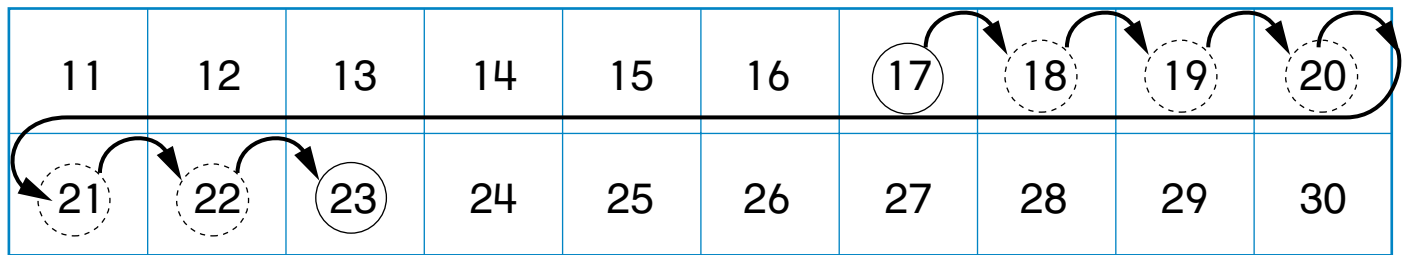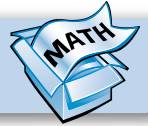
How many spaces from:

23 to 28? _____   15 to 55? _____   39 to 59? _____

27 to 42? _____   34 to 26? _____   54 to 42? _____

15 to 25? _____   26 to 34? _____

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

LESSON 2·2 Math Boxes

1. Count by 3s.
Use your calculator.

_____, 6, _____, _____,

15, _____

2. Fill in the missing numbers.

455, _____, _____, 458

3. Solve.

4 + 3 = ___

Unit

10 − 7 = ___

```
   5        8
 + 4      − 3
 ___      ___
```
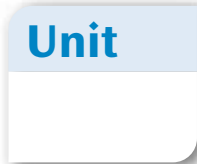
4. Show $1.00 three ways.
Use Ⓠ, Ⓓ, and Ⓝ.

5. Mrs. Satz's Class's
Favorite Colors

Colors	Tallies
Red	卌 卌
Blue	卌 ///
Green	卌
Yellow	//

Which color is the
most popular? _____

6. Fill in the circle that names
the number.

5 ones   Ⓐ 564

6 hundreds   Ⓑ 356

3 tens   Ⓒ 635

                          Ⓓ 536

LESSON 2·3 Addition/Subtraction Facts Table

+,−	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	14
6	6	7	8	9	10	11	12	13	14	15
7	7	8	9	10	11	12	13	14	15	16
8	8	9	10	11	12	13	14	15	16	17
9	9	10	11	12	13	14	15	16	17	18

LESSON 2·3

Domino-Dot Patterns

Draw the missing dots on the dominoes. Find the total number on both halves.

1. double 2

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

2. double 3

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

3. double 4

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

4. double 5

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

5. double 6

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

6. double 7

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

7. double 8

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

8. double 9

$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$
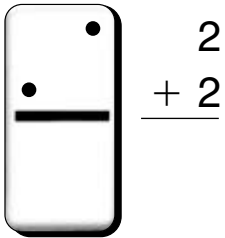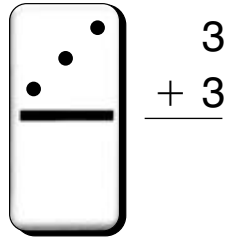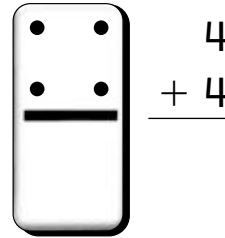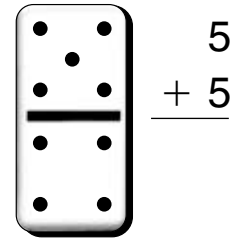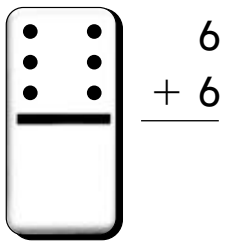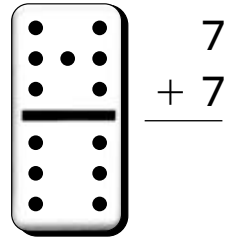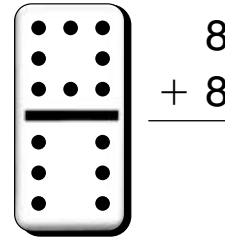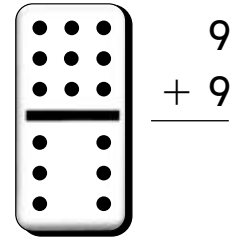
Find the total number of dots.

9.

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

10.

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

11.

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

12.

$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$
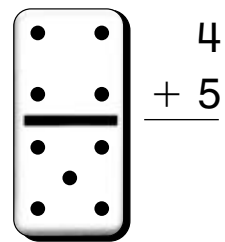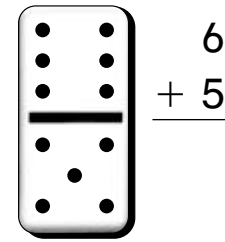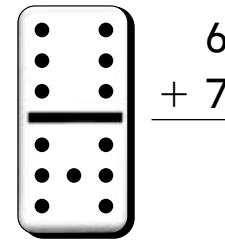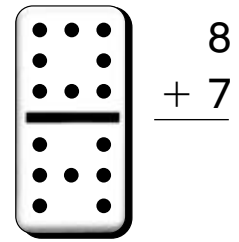
Doubles or Nothing Record Sheet

Round 1

Total _____

Round 2

Total _____

Round 3

Total _____

Grand Total _____

LESSON 2·3

Math Boxes
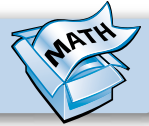
1. Julie had 10 crayons. Rosa gave her 8 more crayons. How many crayons in all?

_____crayons

Number model:

_____

Unit
crayons

2. Use your calculator.

Show 25.
Broken key is ⑤.
Show 2 ways:

_____

_____

3. Count back by 5s.

45, 40, _____, _____, _____,

_____, _____, 10, _____

Can you keep going?

0, _____, _____

4. Write $<$, $>$, or $=$.

6 + 5_____6 + 6

8 + 3_____12

9 + 9_____17

4 + 9_____8 + 5

MRB
9

5. Draw the hands to show 10:30.

MRB
80 81
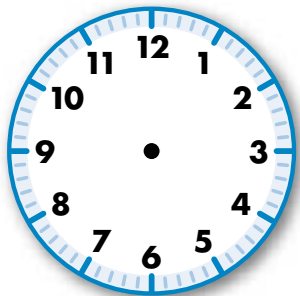
6. Kyra has 2 dimes and 3 nickels in her left pocket. She has 1 quarter and 2 pennies in her right pocket. How much money does she have?

_____

MRB
88

30   thirty

LESSON 2·4   **+9 Facts**

Write the sums.

1.   3
    + 9
    ____

2.   7
    + 9
    ____

3.   ____ = 9 + 5

Unit

4. ____ = 2 + 9

5.   9
    + 4
    ____

6.   6
    + 9
    ____

7.   9
    + 8
    ____

8. 1 + 9 = ____

9. 0 + 9 = ____

10.   9
     + 9
     ____

11. 9 + ____ = 12

12. 15 = 9 + ____

Unit

13. ____ + 9 = 17

14. 13 = ____ + 9

Write a +9 number story.

_____

_____

_____

LESSON 2·4 **Math Boxes**

1. Count by 6s.
Use your calculator.

_____, 12, _____, _____, 30

2. Fill in the missing numbers.

196	
	207

3. Solve.

Unit

$16 = $ _____ $+ 1$

_____ $= 14 + 0$

_____ $+ 9 = 9$

_____ $+ 5 = 12$

4. Show $0.88 in two ways.
Use Ⓠ, Ⓓ, Ⓝ, and Ⓟ.

5. Room 10's Favorite Seasons

Season	Number of Children
Fall	＃＃＃
Winter	＃＃＃ //
Spring	＃＃＃
Summer	＃＃＃ ////

Which seasons have the same number of votes?

_____

6. 132 has… _____ hundreds

_____ tens

_____ ones

LESSON 2·5

Addition Facts

If you know a double, you know the 1-more and the 1-less sums.

Example:
If you know that $4 + 4 = 8$,
You know $\quad\quad 4 + 5 = 9$,
And $\quad\quad\quad 4 + 3 = 7$

1. $3 + 4 = $ _____

2. $8 + 7 = $ _____

3. _____ $= 6 + 7$

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

5.
$$\begin{array}{r} 8 \\ + 9 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 7 \\ + 9 \\ \hline \end{array}$$

8. $5 + 8 = $ _____

9. _____ $= 6 + 9$

10. $8 + 6 = $ _____

Try This

11. $8 + 8 = $ _____

$8 + 9 = $ _____

$8 + 7 = $ _____

12. $12 + 12 = $ _____

$12 + 13 = $ _____

$12 + 11 = $ _____

13. $15 + 15 = $ _____

$16 + 15 = $ _____

$14 + 15 = $ _____

14. $14 + 12 = $ _____

$15 + 13 = $ _____

LESSON 2·5

Math Boxes

1. What shape is the cover of your math journal? Fill in the circle next to the best answer.

- Ⓐ rhombus
- Ⓑ rectangle
- Ⓒ triangle
- Ⓓ square

MRB 52

2. Circle the activity that takes about 1 second.

Blinking your eyes.

Writing your name.

Reading a story.

3. Complete the fact family. Fill in the missing domino dots.

$8 + \underline{\hspace{1.5cm}} = 15$

$\underline{\hspace{1.5cm}} + 8 = 15$

$\underline{\hspace{1.5cm}} = 15 - 8$

$8 = 15 - \underline{\hspace{1.5cm}}$

MRB 25
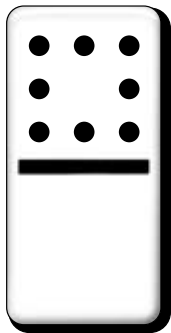
4. How likely is it that our school will have a fire drill today? Circle your answer.

certain

likely

unlikely

impossible

5. Put the numbers in order from smallest to largest. Circle the middle number.

48, 44, 37, 54, 39

$\underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

MRB 46
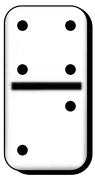
6. Draw hands to show 8:15.
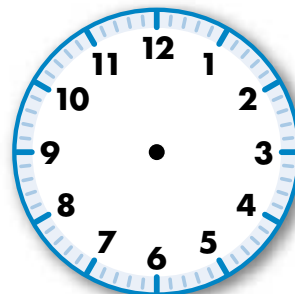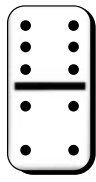
Domino Facts

For Problems 1 through 7, write 2 addition facts and 2 subtraction facts for each domino.

1.

$$4 + 2 = 6 \qquad 2 + 4 = 6 \qquad 6 - 2 = 4 \qquad 6 - 4 = 2$$

2.

$$\Box + \Box \qquad \Box + \Box \qquad \Box - \Box \qquad \Box - \Box$$

3.

$$\Box + \Box \qquad \Box + \Box \qquad \Box - \Box \qquad \Box - \Box$$

4.

$$\Box + \Box \qquad \Box + \Box \qquad \Box - \Box \qquad \Box - \Box$$

5.

$$\Box + \Box \qquad \Box + \Box \qquad \Box - \Box \qquad \Box - \Box$$

6.

$$\Box + \Box \qquad \Box + \Box \qquad \Box - \Box \qquad \Box - \Box$$

Try This

7.

$$\Box + \Box \qquad \Box + \Box \qquad \Box - \Box \qquad \Box - \Box$$

8. Write one addition fact and one subtraction fact.

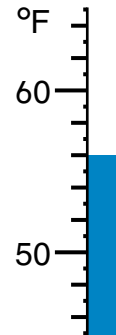$$\Box + \Box \qquad \Box - \Box$$

LESSON 2·6

Math Boxes

1. Fill in the missing numbers.

144		
	155	

MRB 96

2. What is the temperature? Fill in the circle next to the best answer.

- (A) 55 degrees
- (B) 62 degrees
- (C) 52 degrees
- (D) 56 degrees

°F
60 —
50 —

3. Write the sums.

$10 + 5 =$ _____

$10 + 6 =$ _____

$10 + 7 =$ _____

$10 + 8 =$ _____

Unit

4. Write these numbers in order from smallest to largest. Begin with the smallest number.

133, 146, 129, 151

_____, _____, _____, _____

5. Put an X on the digit in the tens place.

456

309

MRB 10

6. What time is it?

_____ : _____

What time will it be in 15 minutes?

_____ : _____

MRB 80 81

LESSON 2·7   # Subtraction Number Stories

Solve each problem.

1. Dajon has $11. He buys a book for $6. How much money does he have left?

   $_____

2. Martin has 7 markers. Carlos has 4 markers. How many more markers does Martin have than Carlos?

   _____ markers

3. There are 11 girls on Tina's softball team. There are 13 girls on Lisa's team. How many more girls are on Lisa's team than on Tina's?

   _____ girls

4. Julia has 10 flowers. She gives 4 flowers to her sister. How many flowers does she have left?
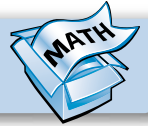
   _____ flowers

5. Keisha has 8 chocolate cookies and 5 vanilla cookies. How many more chocolate cookies does she have than vanilla cookies?

   _____ chocolate cookies

6. Make up and solve your own subtraction story.

   _____

   _____

LESSON 2·7

Math Boxes

1. Use your Pattern-Block Template. Draw a rhombus.
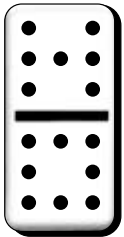
There are _____ sides.

MRB 55

2. Circle the activity that takes about 1 minute.

Brushing your teeth.

Eating lunch.

Playing a soccer game.

3. Write the fact family for this domino.

_____ + _____ = _____

_____ + _____ = _____

_____ − _____ = _____

_____ − _____ = _____

MRB 25

4. How likely is it that the school will serve lunch today? Circle your answer.

impossible

unlikely

likely

certain

5. Arrange the numbers in order from smallest to largest. Circle the middle number.

98, 56, 143, 172, 81

____, ____, ____, ____, ____

MRB 46

6. What time is it?
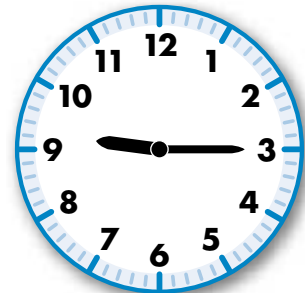
_____ : _____

What time will it be in 30 minutes?

_____ : _____

MRB 80 81

LESSON 2·8 Using a Pan Balance and a Spring Scale

Weighing Things with a Pan Balance

1. Pick two objects. Which feels heavier?

   _____

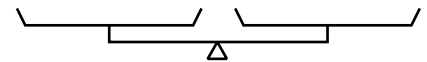   *scissors*   *pencil*

2. Put one of these objects in the left pan
   of the pan balance.

3. Put the other object in the right pan.

4. Show what happened on one of the
   pan-balance pictures.

   ◆ Write the names of the objects
     on the pan-balance picture.

   ◆ Draw a circle around the pan
     with the heavier object.

5. Repeat with other pairs of objects.

Weighing Things with a Spring Scale

1. Which is heavier: 1 ounce or 1 pound? _____
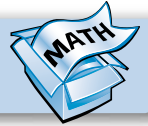
2. How many ounces are in 1 pound? _____

3. Put objects in the plastic bag on the spring scale.

4. Weigh them. Try to get a total weight of about 1 pound.

5. List the objects in the bag that weigh a total of
   about 1 pound.

   _____   _____   _____
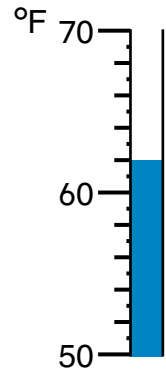
   _____   _____   _____

Math Boxes

---

1. Fill in the missing numbers.

	13	

2. What temperature is it? Fill in the circle next to the best answer.

°F 70

(A) 61

(B) 62

(C) 64

(D) 78

60

50

---

3. Write the sums.

Unit

$10 + 7 =$ _____

$10 +$ _____ $= 12$

_____ $= 10 + 20$

_____ $= 10 + 41$

4. Write these numbers in order from smallest to largest. Circle the smallest number and draw a box around the largest number.

243, 156, 326, 256

_____, _____, _____, _____

---

5. Put an X on the digit in the tens place in each number.

362   1,043

1,209   596

6. What time is it?

_____ : _____

What time will it be in 15 minutes?

_____ : _____

MRB
10
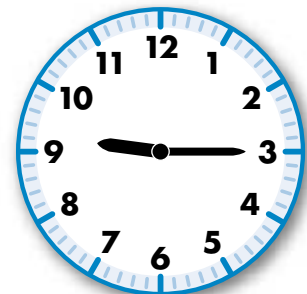
LESSON 2·9

Name-Collection Boxes

1. Write 10 names in the 12 box.

12

2. Circle the names that DO NOT belong in the 9 box.

9

$12 - 3$ $8 + 0$

$9 - 0$ $5 + 4 + 1$

$19 - 10$ ~~HHH~~ ///

$15 - 7$ x x x
                  x x x
                  x x x | 1 less than 10 |

$3 + 3 + 3$ nine

3. Three names DO NOT belong in this box. Circle them. Write the name of the box on the tag.

$9 + 3$ $12 - 8$

$3 + 3$ ~~HHH~~ //

x x x $5 + 3 - 2$
x x x

$10 - 4$ | half a dozen |

4. Make up a name-collection box of your own.

LESSON 2·9

Pan-Balance Problems

Reminder: There are 16 ounces in 1 pound.
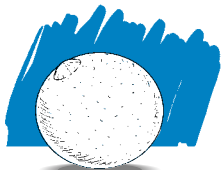
Some food items and their weights are shown below.

◆ Pretend you will put one or more items in each pan.

◆ Pick items that would make the balances tilt the way they are shown on journal page 43.

◆ Write the name of each item in the pan you put it in.

◆ Write the weight of each item below the pan you put it in.
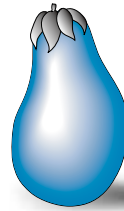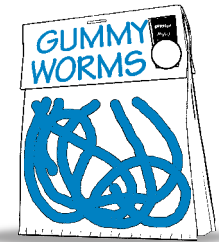
Try to use a variety of food items.

Salad Dressing	**Orange**	**Walnuts**	**Eggplant**	**Gummy Worms**
1 ounce	8 ounces	3 ounces	15 ounces	4 ounces

Salt	**Lemon**	**Flour**	**Banana**	**Potatoes**
1 pound	6 ounces	2 pounds	6 ounces	5 pounds

Pan-Balance Problems *continued*

Example:

orange

gummy worms
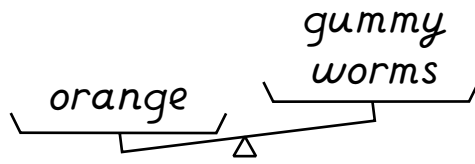
Weight: _8 ounces_   Weight: _4 ounces_
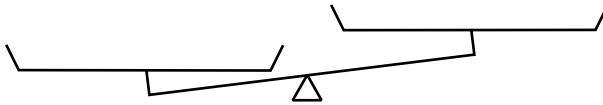
1. Weight: _____   Weight: _____
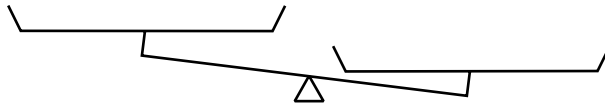
2. Weight: _____   Weight: _____
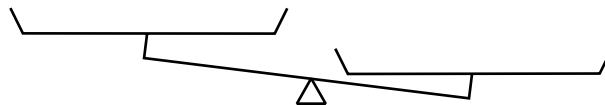
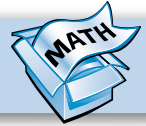**3.** Weight: _____   Weight: _____
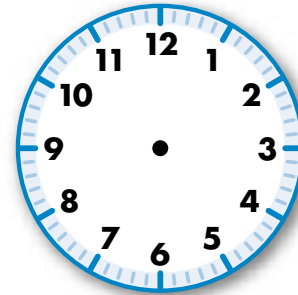
4. Weight: _____   Weight: _____
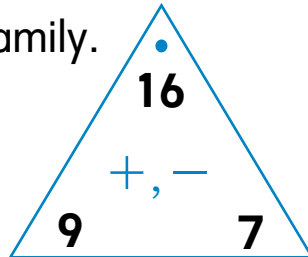
LESSON 2·9   **Math Boxes**

1. How much money?

$_____ . _____

2. Draw the hands to show the time school begins.

3. Write the fact family.

16

+, −

9   7

_____ + _____ = _____

_____ + _____ = _____

_____ − _____ = _____

_____ − _____ = _____

MRB 26 27

4. Write the label and add 3 more names.

20 − 4 |||| |||| |||| |

MRB 16
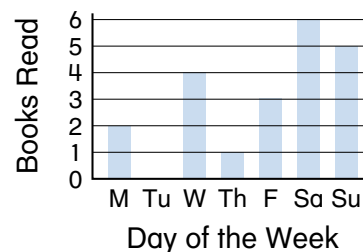
5. Use your Pattern-Block Template to draw a trapezoid.

MRB 55

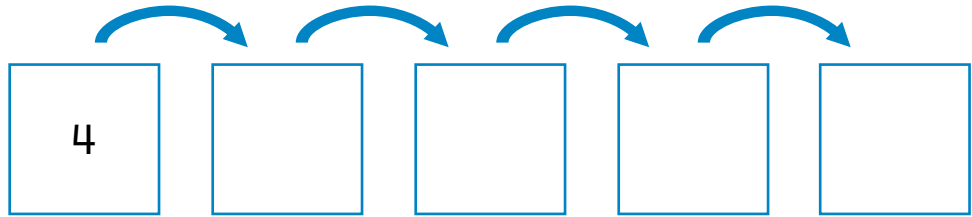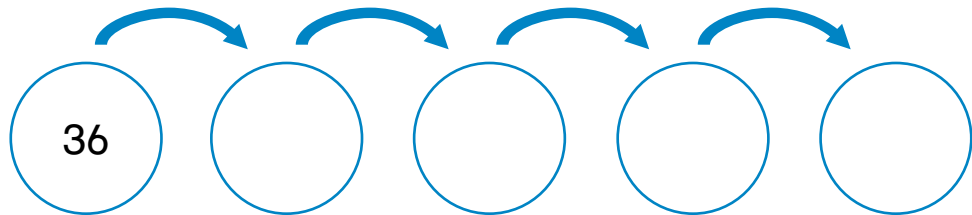**6.** How many books in all did Pedro read on Saturday and Sunday? Fill in the circle next to the best answer.

Books Read / Day of the Week

Ⓐ 10   Ⓑ 5   Ⓒ 6   Ⓓ 11

LESSON 2·10   Frames-and-Arrows Problems

1. Fill in the empty frames.

Rule
+8

| 4 | | | | |

2. Fill in the empty frames.

Rule
−4

(36) ( ) ( ) ( ) ( )

3. Fill in the empty frames.

Rule
+4

| | | 15 | | |
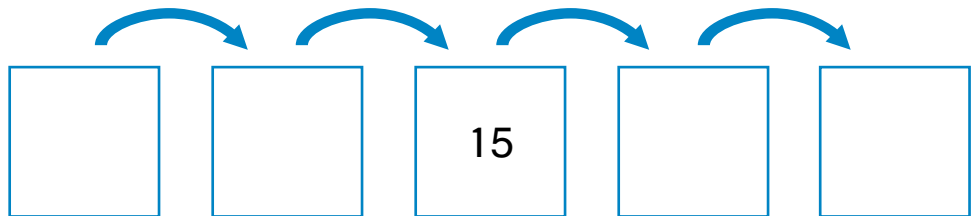
4. Fill in the arrow rule.

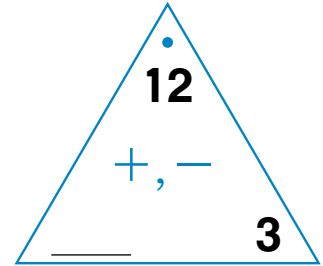**Rule**

14   11   8   5   2
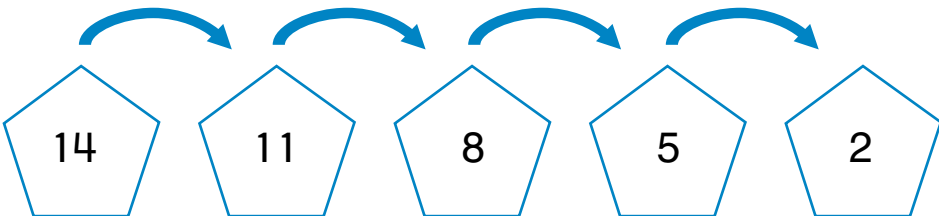
Try This

5. Fill in the arrow rule and the empty frames.

Rule
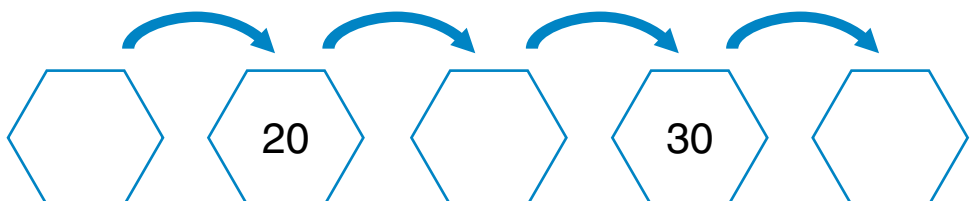
⬡   20   ⬡   30   ⬡

Math Boxes

1. Write 4 doubles facts that you know.

2. Complete the Fact Triangle and the fact family.

$$\underline{\hspace{2cm}} = \underline{\hspace{1.5cm}} + \underline{\hspace{1.5cm}}$$
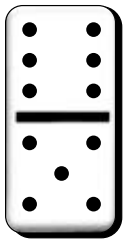
$$\underline{\hspace{2cm}} + \underline{\hspace{1.5cm}} = \underline{\hspace{1.5cm}}$$

$$\underline{\hspace{2cm}} - \underline{\hspace{1.5cm}} = \underline{\hspace{1.5cm}}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{1.5cm}} - \underline{\hspace{1.5cm}}$$

MRB
26 27

3. Write the fact family for the domino.

$$\underline{\hspace{1cm}11\hspace{1cm}} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}11\hspace{1cm}}$$

$$\underline{\hspace{1cm}11\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}11\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

MRB
25

4. Fill in the missing frames.

Rule

+2

5

11

MRB
98
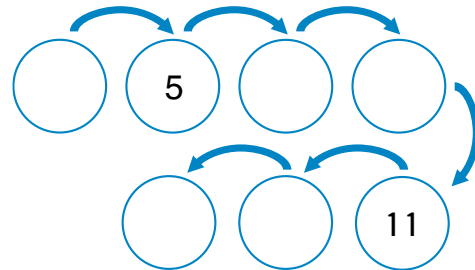
5. The total cost is 16¢. I pay with 2 dimes. How much change do I get? Fill in the circle next to the best answer.

Ⓐ 36¢   Ⓑ 6¢

Ⓒ 4¢   Ⓓ 20¢

MRB
88

6. Draw a rectangle around the digit in the tens place.

3 4 9

4 0 6

MRB
10

LESSON 2·11 **"What's My Rule?"**

In Problems 1–4, follow the rule. Fill in the missing numbers.

1.

Rule +6

in	out
2	8
3	9
5	
9	

2.

Rule −4

in	out
6	2
8	
10	
5	

3.

Rule +10

in	out
1	
5	15
	20
100	

4.

Rule −5

in	out
6	
	3
5	
12	

What is the rule? Write it in the box. Then fill in any missing numbers.

5.

Rule

in	out
6	13
1	8
3	
4	

6.

Rule

in	out
12	10
6	4
11	
	6

LESSON 2·11

Math Boxes

---

1. Show $1.50 three ways. Use
Ⓠ, Ⓓ, and Ⓝ.

2. What time is it?

_____ : _____

What time
will it be in
20 minutes?

_____ : _____

3. Write the
fact family.

17
+, −
9   8

_____ + _____ = _____

_____ + _____ = _____

_____ − _____ = _____

_____ − _____ = _____

MRB 26 27
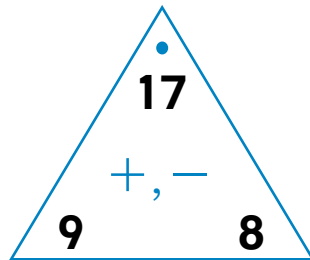
4. Write 6 names for 15.
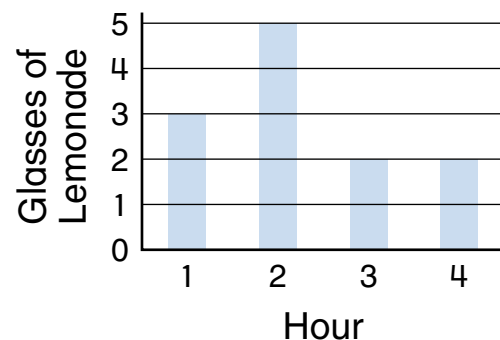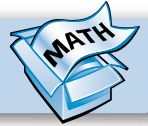
15

MRB 16

5. Draw a hexagon with your
Pattern-Block Template.

There are _____ sides.

MRB 54

6. How many cups of lemonade
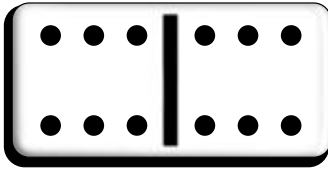did Dee sell in the third
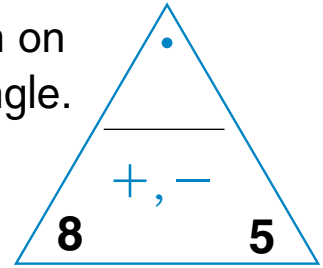hour? _____

48 forty-eight

LESSON 2·12 **Math Boxes**

---

1. Write the doubles fact.

Number model:

_____ + _____ = _____

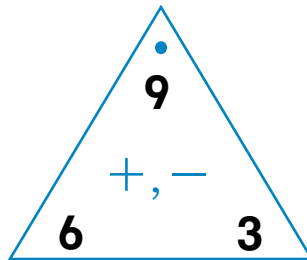**2.** Fill in the sum on the Fact Triangle. Write the fact family.

$+, -$

8   **5**

_____ + _____ = _____

_____ + _____ = _____

_____ − _____ = _____

_____ − _____ = _____

---

3. Complete the fact family.

9

$+, -$

6   **3**

_____ = _____ + _____

_____ = _____ + _____

_____ = _____ − _____

_____ = _____ − _____

MRB 26 27

---

4. Fill in the frames.

Rule
$+7$

14

35

MRB 98

---
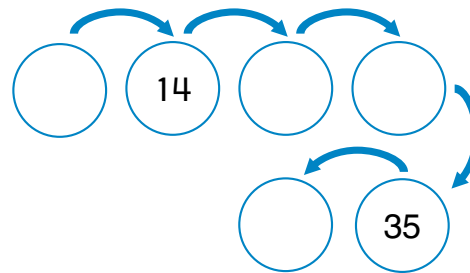
5. The total cost is 75¢. I pay with $1.00. How much change do I get?

_____

---

6. Circle the digit in the hundreds place.

128   972

465   2,425

MRB 10

LESSON 2·13   **Subtract 9 or 8**

> **Reminder:** To find 18 − 9, think 18 − 10 + 1.
>
> To find 18 − 8, think 18 − 10 + 2.

1. Subtract. Use the −9 and −8 shortcuts.

a. 13 − 9 = _____

b. 16 − 9 = _____

c. 14 − 8 = _____

d. _____ = 12 − 8

e. _____ = 17 − 9

f. 12 − 9 = _____

g. _____ = 13 − 8

h. 11 − 9 = _____

i. _____ = 15 − 8

j.   15
      − 9
     ─────

k.   17
      − 8
     ─────

l.   11
      − 8
     ─────

Try This

2. Find the differences.

a. 43 − 9 = _____

b. 56 − 8 = _____

c. 65 − 9 = _____

d. 37 − 8 = _____

e. 45 − 9 = _____

f. 53 − 8 = _____

3. Solve.

a. 7 = _____ − 9

b. 6 = _____ − 8
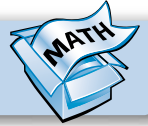
LESSON 2·13 **Math Boxes**

---

1. How much money?

$\$\underline{\hspace{1cm}}.\underline{\hspace{1cm}}$

---

2. Show 8:50 P.M.

---
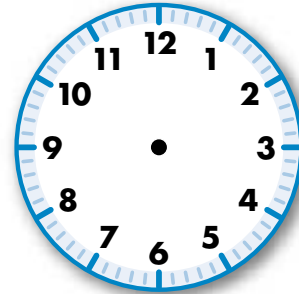
3. Find the turn-around facts.

$3 + 4 =$ \underline{\hspace{2cm}}

$4 +$ \underline{\hspace{2cm}} $= 7$

$8 + 5 =$ \underline{\hspace{2cm}}

$5 +$ \underline{\hspace{2cm}} $= 13$

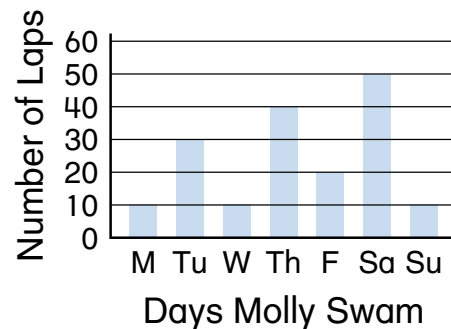**4.** Write the label and add 3 more names.

$21 + 5$
$28 - 2$
$XXVI$

MRB 16

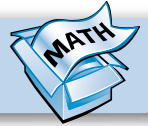**5.** Use your Pattern-Block Template to draw a trapezoid.

Circle the three sides that are the same length.

MRB 55

---

6. What day did Molly swim the most laps? Fill in the circle next to the best answer.

Number of Laps vs Days Molly Swam

Ⓐ Wednesday Ⓑ Sunday

Ⓒ Saturday   Ⓓ Tuesday

LESSON 2·14

Math Boxes

1. Selling Tickets for the School Fair

John	
Andrea	
Jason	

0   5   10   15   20   25   30   35   40
Number of Tickets
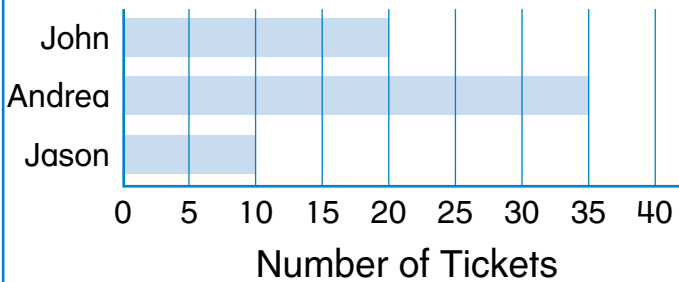
Who sold the least amount

of tickets? _____

2. Use the Pattern-Block Template to draw a hexagon.

MRB 54

3. Put an X on the digit in the tens place for each number below.

95

145

217

1,273

MRB 10

4. Draw the hands to show 7:45 A.M.
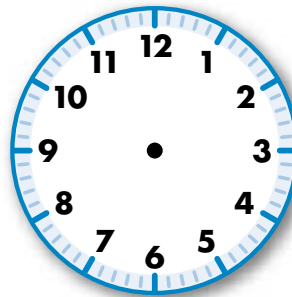
5. Write 6 names for $1.00.

$1.00

6. Fill in the missing frames.

Rule

−7

35   21

7

MRB 98 99