LETTER HOME
Exploring Numbers

Dear Family Member:

In this unit, your child will explore numbers and use problem-solving strategies. He or she will solve addition and subtraction problems, skip count, and identify even and odd numbers.

Your child will use a 200 Chart to identify patterns and show numbers within intervals. He or she will explore addition and subtraction using a 200 Chart, the number line, and manipulatives. See Figure 1. The activities in this unit will help your child bring meaning to written numbers. Keep the 200 Chart on the back of this letter to help your child with homework.

Help your child with the concepts in this unit by playing the following game:

· **Play I Am Thinking of a Number.** Give players one clue, such as "I am thinking of a number that is less than 50." Players ask yes or no questions that will help them identify the number (for example, "Is it greater than 25?" or "Is it between 20 and 30?"). The player who names the correct number thinks of the next number for others to figure out. Use the 200 Chart as you play.

Figure 1: *Students use a 200 Chart to become familiar with relationships among numbers and to solve problems*

Math Facts and Mental Math

This unit continues the systematic review and assessment of the addition facts in Groups D.

Addition Facts. Students review and practice the following addition facts to develop fluency:

Group D: 3 + 3, 3 + 4, 4 + 4, 4 + 5, 6 + 6, 6 + 7, 7 + 7, 7 + 8, 8 + 8, 10 + 9, 10 + 10.

You can help your child review these facts using the flash cards the teacher sent home or by making a set of flash cards from index cards or scrap paper. Study facts in small groups each night. As your child goes through the flash cards, put the cards in three stacks: Facts I Know Quickly, Facts I Can Figure Out, and Facts I Need to Learn.

For Facts I Need to Learn, work on strategies for figuring them out. The facts in Group D involve doubles and near doubles.

For Facts I Can Figure Out, use the flash cards to practice the facts for fluency.

For Facts I Know Quickly, help your child use strategies to solve problems like these using mental math: 30 + 30, 70 + 80, 24 + 5.

Sincerely,

200 Chart

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
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

Unit 3: Home Practice

Part 1 **Addition Flash Cards: Group D**

Take home your Triangle Flash Cards: Group D. Ask a family member to choose one flash card at a time for you to solve. Sort the flash cards into three piles: Facts I Know Quickly, Facts I Can Figure Out, and Facts I Need to Learn. Update your *Addition Facts I Know* chart. Clip the cards in the Facts I Know Quickly pile together and place them back into the envelope. Practice the facts in the last two piles again.

Part 2 **Math Facts Practice**

A. $4 + 3 = \boxed{}$

B. $5 + 4 = \boxed{}$

C. $7 + 7 = \boxed{}$

D. $7 + \boxed{} = 15$

E. $\boxed{} + 6 = 13$

F. $\boxed{} = 10 + 10$

G. Show how you can solve Question D using the number line.
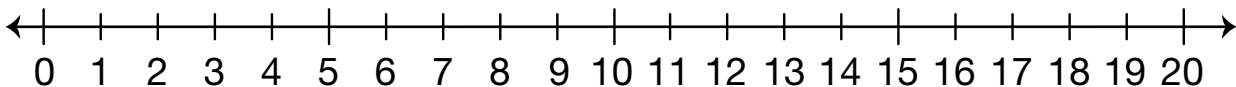
Part 3 Use Doubles

1. Solve each problem in the table. Write a number sentence that shows your solution.

Rule: Double the Number	
Number	**Number Sentence**
3	
4	
6	
7	
8	
10	

2. Solve each number sentence.

   A. ☐ + 3 = 7

   B. 6 + ☐ = 13

   C. 9 = 4 + ☐

   D. 7 + 8 = ☐

3. How can 10 + 10 help you solve 10 + 9? Explain your strategy.

Part 4 True or False

A. $9 = 5 + 4$ ————————————————

B. $8 + 3 = 8 + 2 + 1$ ————————————————

C. $2 + 0 = 2$ ————————————————

D. $4 + 2 = 3 + 2$ ————————————————

E. $5 + 5 = 4 + 7$ ————————————————

F. $2 + 1 = 3 + 0$ ————————————————

G. $6 + 3 = 3 + 3 + 3$ ————————————————

H. $0 + 5 = 4 + 1$ ————————————————

I. Show or tell how you know your answer for Question E is correct.

Part 5 **Subtraction Strategies**

Complete the subtraction number sentences. Be ready to explain your strategy for solving each one. Use the number line if needed.

A. $14 - 9 = \boxed{}$

B. $\boxed{} = 11 - 2$

C. $19 - 17 = \boxed{}$

D. $\boxed{} = 13 - 9$

E. $8 - 2 = \boxed{}$

F. $\boxed{} = 7 - 4$

G. $10 - 4 = \boxed{}$

H. $\boxed{} = 15 - 5$

I. Show or tell how you solved Question D.

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0  1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16 17 18 19 20
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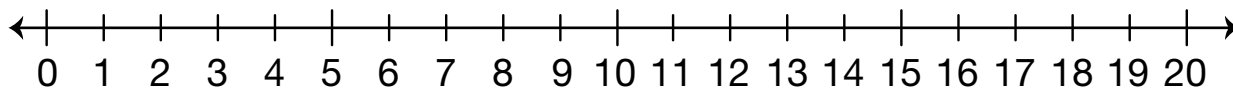
Part 6 **Buying Snacks**

Use a *200 Chart* or coins.

Sara and Leah went to a football game. They put their money together to buy snacks. Sara had a dollar and a quarter. Leah had 75¢.

1. How much did they have altogether to spend on snacks?

_____

2. Look at the menu. Will Sara and Leah have enough money to buy 2 hotdogs, 1 bag of chips, and a soda? Show or tell how you know.

_____

_____

3. If you and a friend went to the game and had the same amount of money as Sara and Leah, what would you buy? What would it cost?

Pete's Snack Stand	
Nachos w/cheese	50¢
Potato Chips	25¢
Soda	30¢
Hot Dog	75¢
Candy	10¢
• taxes included in prices •	

_____

_____

_____

Triangle Flash Cards: Group D

- To practice an addition fact, cover the corner with the highest number. Add the two uncovered numbers.
- To practice a subtraction fact, cover one of the smaller numbers and subtract from the highest number.
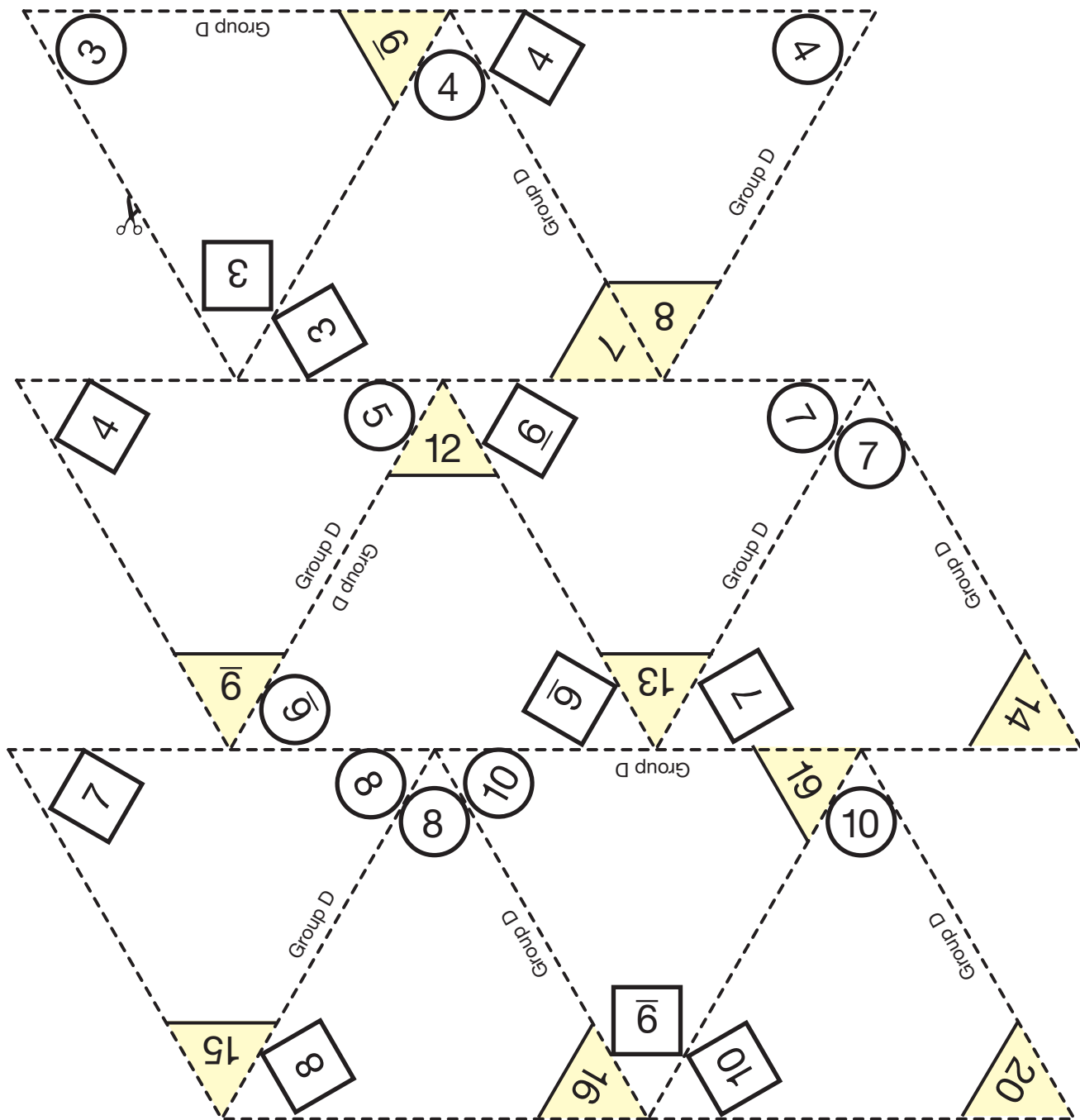
Name _____ Date _____

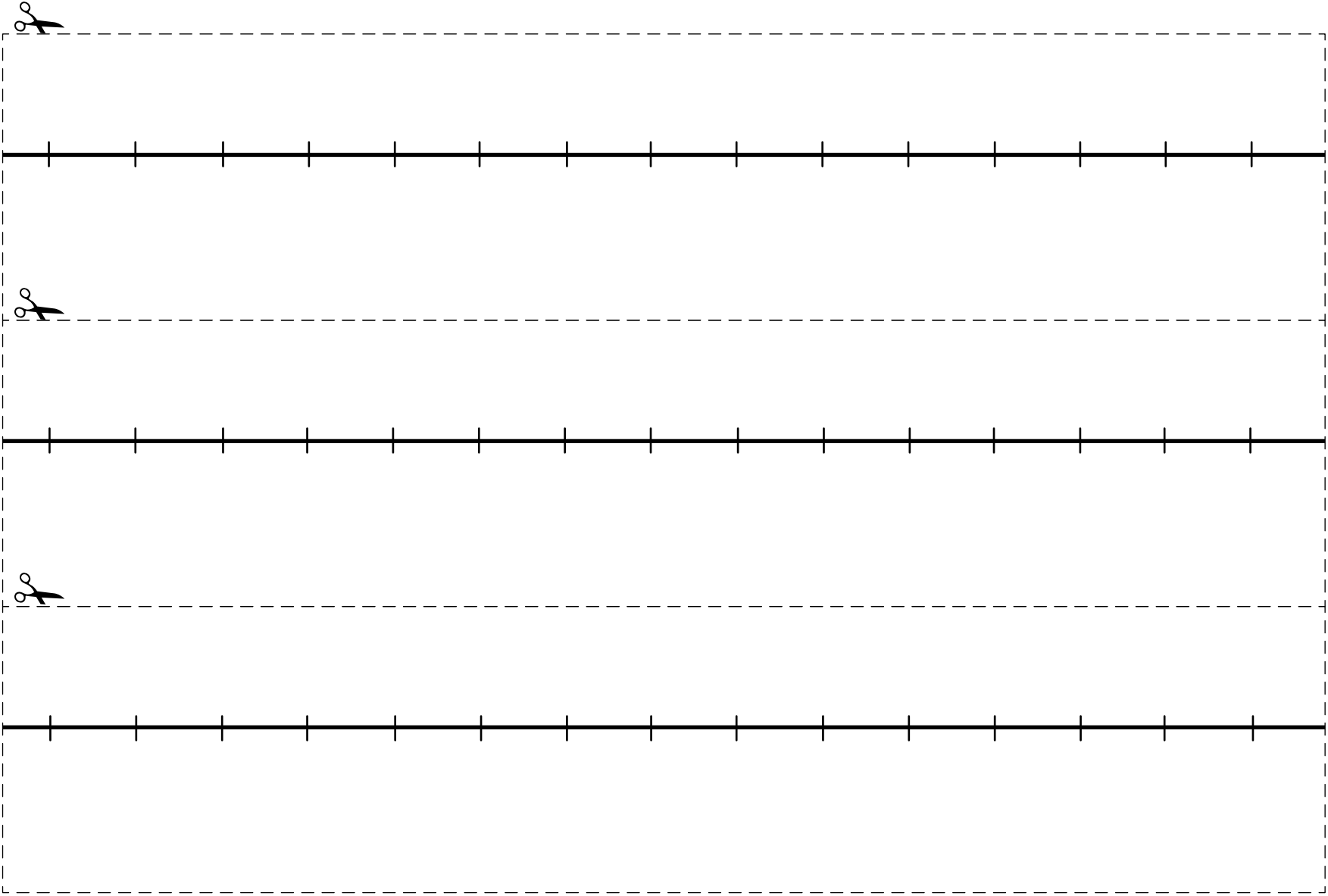# Addition Facts I Know

Circle the facts you know quickly.

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

Number Line Display

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

42 43 44 45 46 47 48 49 **50** 51 52 53 54 55 56

56 57 58 59 **60** 61 62 63 64 65 66 67 68 69 **70**

70 71 72 73 74 75 76 77 78 79 **80** 81 82 83 84

84 85 86 87 88 89 **90** 91 92 93 94 95 96 97 98

98 99 **100** 101 102 103 104 105 106 107 108 109 **110** 111 112

112 113 114 115 116 117 118 119 **120** 121 122 123 124 125 126

Name _____ Date _____

True or False

Homework
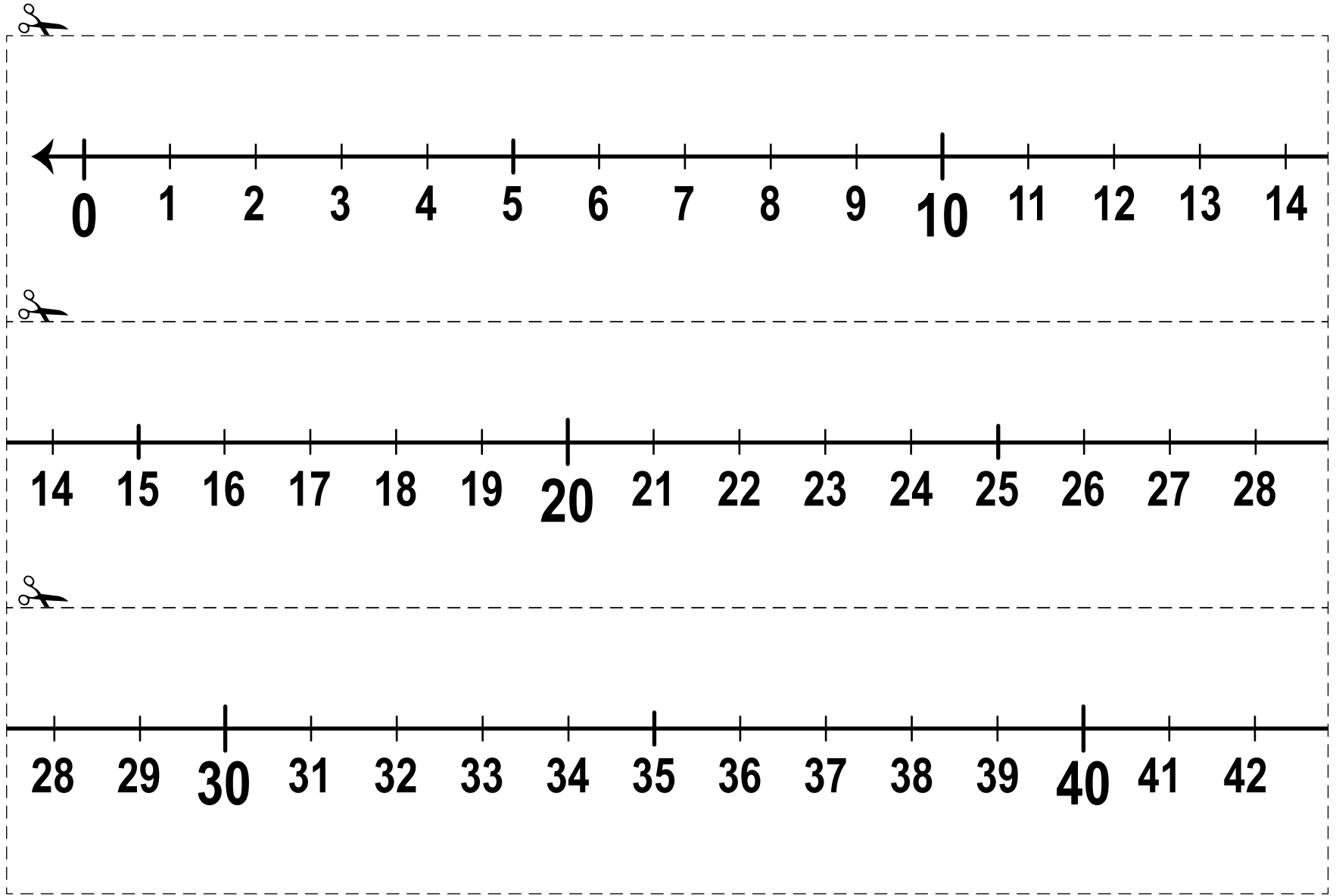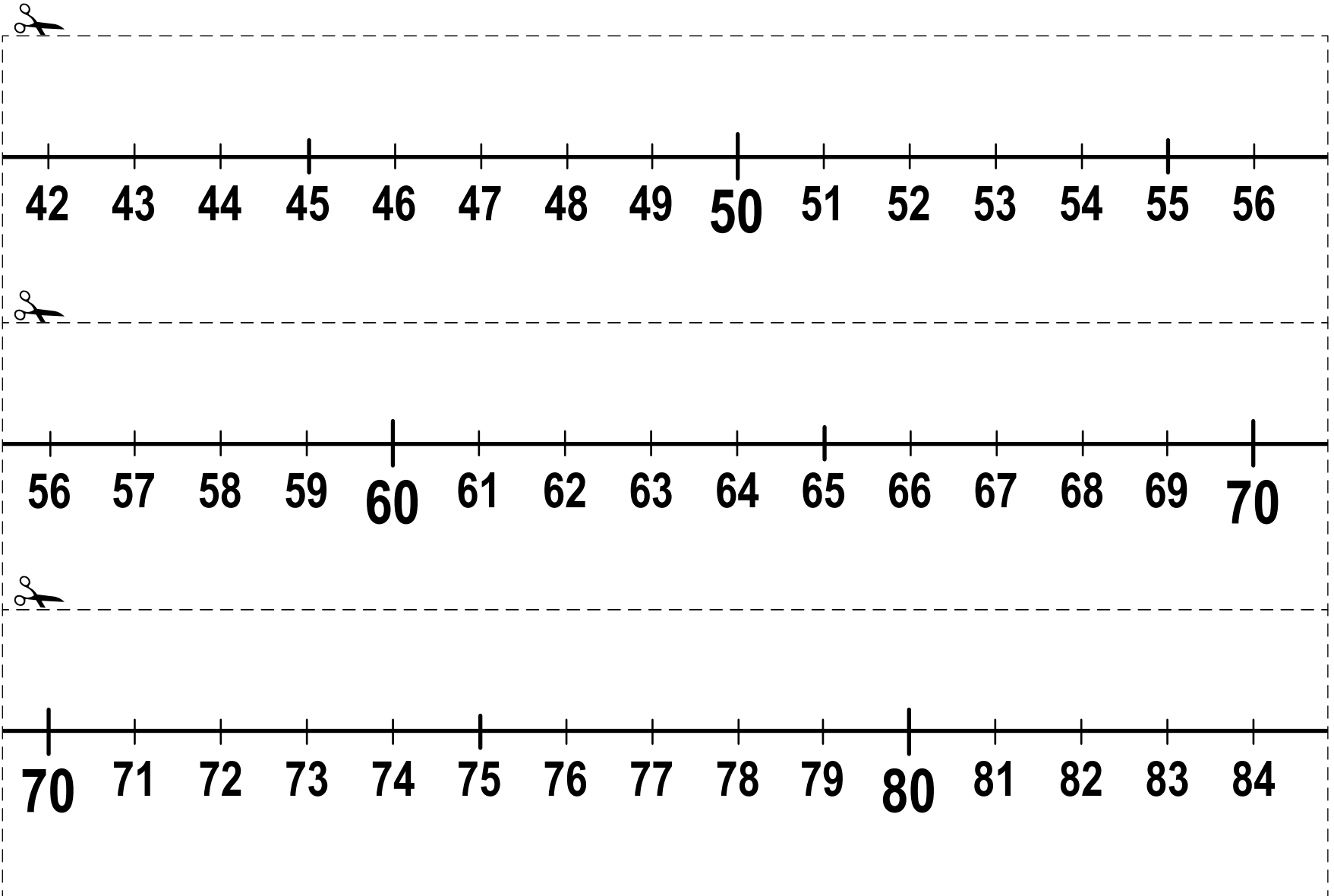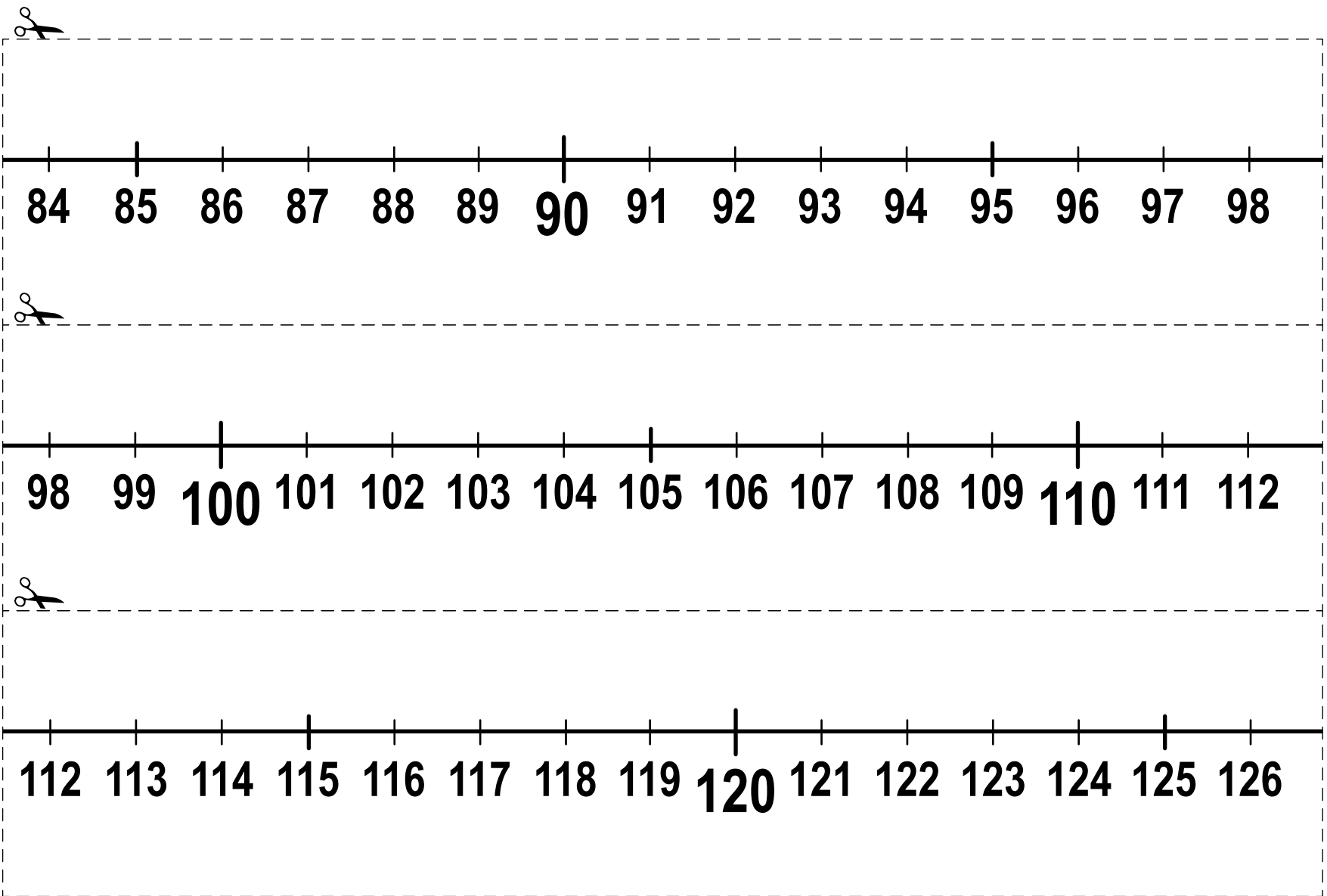
Dear Family Member:

In math class, your child has been analyzing number sentences to determine whether they are true or false. Ask your child to explain to you how he or she decided for the questions below.

Thank you.

Read each number sentence. Write if it is true or false.

A. $6 + 4 = 12$ _____

B. $9 = 5 + 4$ _____

C. $8 = 3 + 5$ _____

D. $2 + 5 = 6 + 1$ _____

E. $5 + 6 = 8 + 4$ _____

F. $6 + 6 = 9 + 3$ _____

G. $2 + 7 = 3 + 5$ _____

H. $3 + 8 = 5 + 5$ _____

I. On the back, show or tell how you know your answer to Question F is correct.

Fact Families

A. Draw a line to connect number sentences that are in the same fact family. The first is done for you.

$7 + 3 = 10$	$3 + 5 = 8$
$7 = 1 + 6$	$6 - 3 = 3$
$2 + 5 = 7$	$10 - 7 = 3$
$3 + 3 = 6$	$4 = 2 + 2$
$4 + 7 = 11$	$5 + 2 = 7$
$5 + 3 = 8$	$7 - 1 = 6$
$4 - 2 = 2$	$7 + 4 = 11$

B. $6 + 5 = \boxed{}$

Write 3 more number sentences in the same fact family.

_____

_____

_____

C. Choose a number sentence from Question A. Draw a picture that matches your number sentence. Write another number sentence from the same fact family.

Number sentence _____

Another number sentence _____

Subtraction Problem Types: Separate/Take Away

1. Levi is given 11 beanbags to toss into the buckets at the carnival. Seven bags land in the buckets and the rest land outside the buckets. How many beanbags do not land in the buckets?

$$\boxed{} - \boxed{} = \boxed{} \underline{\hspace{3cm}}$$

2. There are 15 people waiting in line to go into the fun house. After a five-minute wait, 7 more people go into the fun house. How many people are still waiting in line?

$$\boxed{} - \boxed{} = \boxed{} \underline{\hspace{3cm}}$$

Subtraction Problem Types: Compare

1. Fern sees a balloon man with 14 blue balloons and 8 red balloons. How many more blue balloons are there than red balloons?

$$\boxed{} - \boxed{} = \boxed{} \underline{\hspace{4cm}}$$

2. At the face-painting station, 12 children paint flowers on their faces and 7 children paint shapes on their faces. How many more children paint flowers than shapes on their faces?

$$\boxed{} - \boxed{} = \boxed{} \underline{\hspace{4cm}}$$

Write a Word Problem

The answer is _____ . What is the problem?

1. Write a number sentence for the problem.

$$\boxed{} - \boxed{} = \underline{\hspace{2cm}}$$
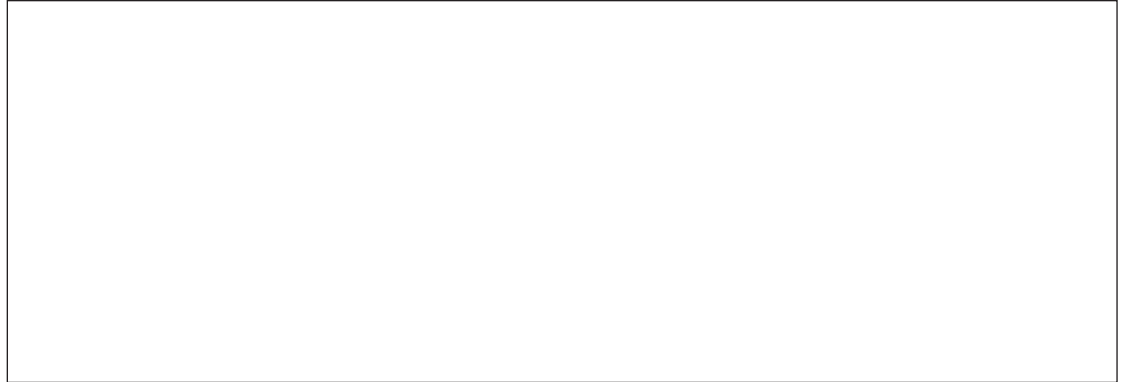
2. What characters or objects are in the problem?

_____

3. What is the question?

_____

4. Draw a picture of the problem.

_____

5. Write a word problem to match the number sentence.

_____

_____

_____

Carnival Word Problems

Homework

Show or tell how you solved each problem. Write number sentences. Include labels.

1. Frank and Luis saved money to go to the carnival. Frank saved $15 and Luis saved $19. How much more money did Luis save than Frank?

   Number sentence _____

2. Both boys wait in line for a ride on the Scrambler. Frank waits 11 minutes. Luis waits 5 minutes. How much longer does Frank wait than Luis? Show your answer on the number line.

   Number sentence _____

   0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
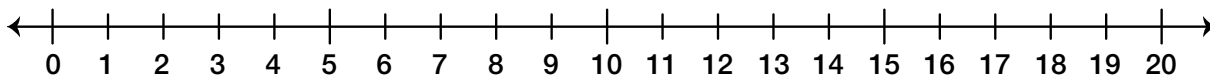
3. Frank buys 15 tickets. He uses some of the tickets to ride the roller coaster. Then he has 9 tickets left. How many did he use for the roller coaster?

Number sentence _____

4. Luis buys 2 hot dogs for $1 each. He gives the hot dog seller $5. How much money does Luis get back in change?

Number sentence _____

5. Frank buys a box of Chocos Candies. The box has 14 candies. He gives 7 candies to Luis. How many candies does Frank have left?

Number sentence _____

```
  ←—+—+—+—+—+—+—+—+—+—+—+—+—+—+—+—+—+—+—+—+—→
    0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20
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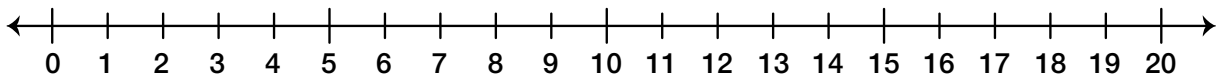
Building 100

Make two copies of this page. Cut one along the bold lines. You will only use the three-by-three sections. Keep the second copy intact.

	12			15			18	
	43			46			49	
	72						78	
				85				

Building from 101 to 200

Make two copies of this page. Cut one along the bold lines. You will only use the three-by-three sections. Keep the other copy intact.

		113			116			119	
	142			145			148		
		173						179	
					186				

Name _____   Date _____

Skip Count on the 200 Chart

1.

A.

| 115 |
| 125 |
| |
| 145 |
| |

B.

| 60 |
| |
| |
| 90 |
| |

C.

| 16 |
| |
| 36 |
| |
| 56 |

D.

| 32 |
| |
| |
| 62 |
| |

E.

| 151 |
| |
| |
| |
| 191 |

F.

| |
| 144 |
| |
| 164 |
| |

G. Describe the pattern. _____

2. A. 25, _____, _____, 40, 45

 B. 175, _____, 185, _____, _____

 C. _____, 100, 105, _____, 115

 D. Describe the pattern. _____

3. A. 184, 186, _____, _____, 192

 B. 73, _____, 77, _____, 81

 C. _____, 11, _____, 15, 17

 D. Describe the pattern. _____

200 Chart

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
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

Missing Numbers on the 200 Chart

Homework

Dear Family Member:

We have been finding patterns on the 200 Chart. Encourage your child to show you how he or she can use patterns and the 200 Chart to fill in the missing numbers from the chart.

Thank you.

1. A.

94

B.

148

C.

111

D.

58

E.

45
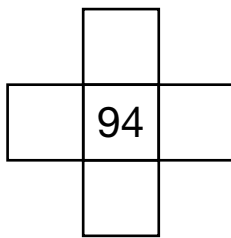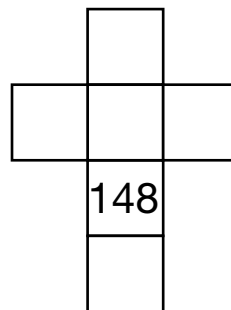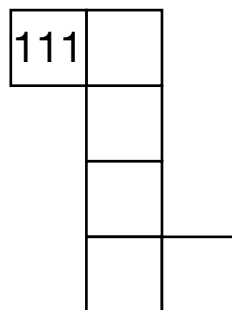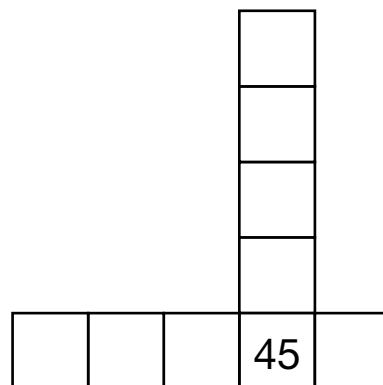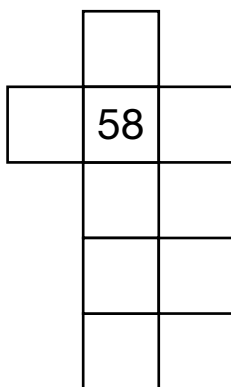
F. What patterns do you see in Question E?

200 Chart

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
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

Add and Subtract on the 200 Chart

Homework

A. $74 + 5 =$ **B.** $74 - 20 =$

C. $74 + 30 =$ **D.** $74 - 10 =$

E. $74 + 11 =$ **F.** $74 - 11 =$

G. $74 + 9 =$ **H.** $74 - 9 =$

I. Explain how you solved $74 + 9$ using the 200 Chart.

J. How might you solve $74 + 12$ on the 200 Chart?

200 Chart

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
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

Patterns on the 200 Chart

A. When you skip count by two from zero all the numbers are in 5 columns that start with 2, 4, 6, 8, or 10 at the top.

B. When you skip count by fives from zero all the numbers are in columns with 5 or 10 at the top.

C. When you skip count by tens from zero, all the number are in one column with a 10 at the top.

D. The numbers in a row, except the last number, begin with the same digit.

E. The numbers in a row, except for the last number, have the counting numbers for the last digit, i.e., 1, 2, 3, 4, 5, etc.

F. The last number in each row ends in 0.

G. To add 10 to a number, move to the row immediately below, same column.

H. To subtract 10 from a number, move to the row immediately above, same column.

I. To add 1 to a number, move one space to the right.

J. To subtract 1 from a number, move one space to the left.

K. In each column, the last digits are the same for all the rows.

L. In each column, the first digits are the counting numbers starting with 1 in the first row.

Sample Moving on the Number Line Recording Sheet

20 21 22 23 24 25 26 27 28 29 30 30 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
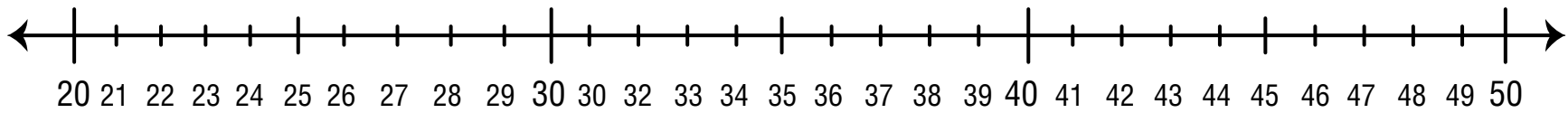
Where did you land?

Start _____ ◯ _____ ◯ _____ ◯ _____ = ◯

34

Fill-In Moving on the Number Line Recording Sheet
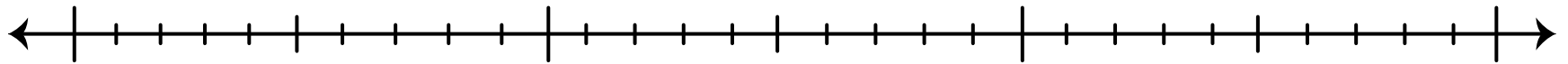
Where did you land?

Start _____ ◯ _____ ◯ _____ ◯ _____ = ◯

Where did you land?

Start _____ ◯ _____ ◯ _____ ◯ _____ = ◯

Name _____   Date _____

Fix the Number Line

Homework

Dear Family Member:

In math class, we have been using the number line in our study of numbers. Students will identify numbers on the number line and move or hop on the number line.

Thank you.

Here are some parts of number lines. Fill in the missing numbers.

1.

10   11   ____ ____ ____ ____   16   ____ ____ ____ ____

2.

____ ____ 53 ____ ____ ____ 57 ____ ____ ____ ____

3.

____ ____ ____ 96   97   98 ____ ____ ____ ____ ____
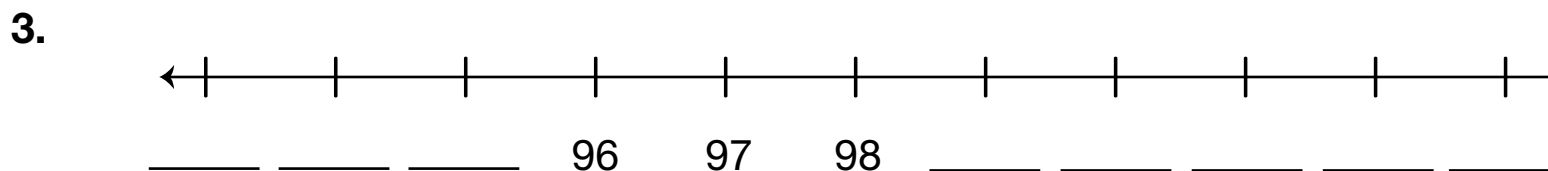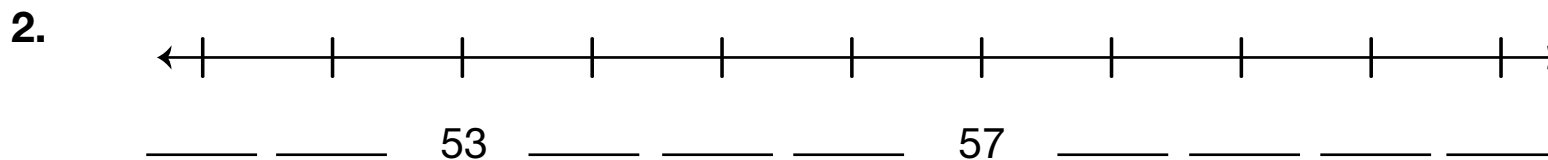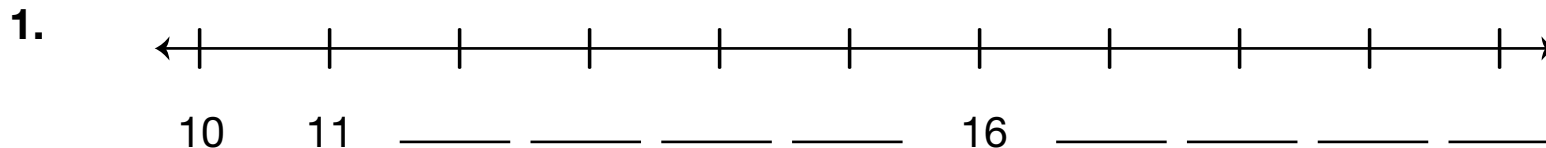
Name _____   Date _____

Show skip counting by hops on the number line. The first one is done for you.

4. Start at 27 and skip count by tens.

```
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
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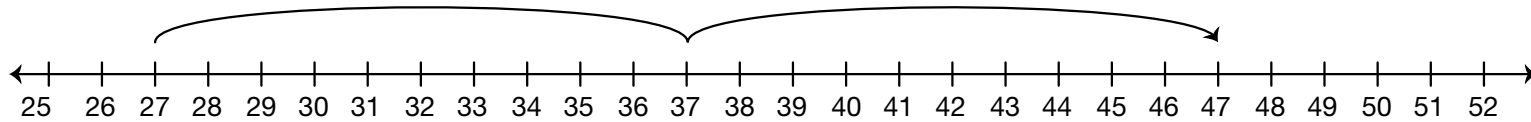
5. Start at 60 and skip count by tens.

```
55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71  72  73  74  75  76  77  78  79  80  81  82
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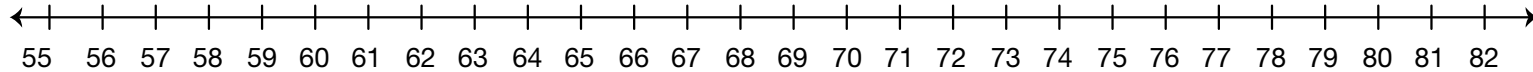
6. Start at 33 and skip count by tens.

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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
```
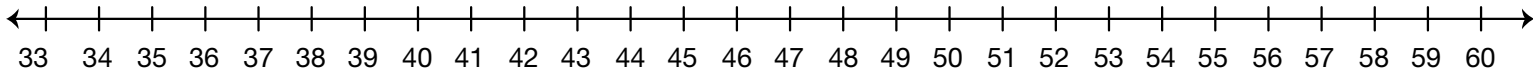
7. Start at 36 and skip count by tens.

```
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
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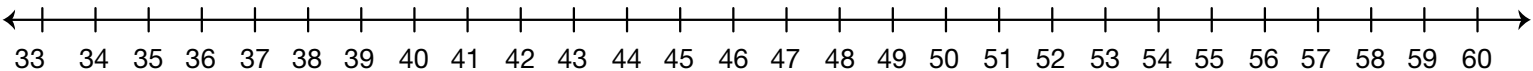
Mr. Montes' Problems

Homework

Dear Family Member:

We have been solving addition and subtraction problems using tools like 200 Charts, number lines, and coins. We have also been checking our answers by solving the problem two ways. Students have been writing number sentences to show their solutions.

Thank you.

Show how to solve each problem.

1. Jason wants to buy a can of soup for 56¢ and a roll for 24¢. How much money will Jason need?

Number sentence _____

2. Roberto wants to buy two cans of soup for 56¢ each and a roll for 24¢. How much money will Roberto need?

Number sentence _____

3. Tara spent 65¢ at the grocery store. She bought a banana for 25¢ and a bagel. How much was the bagel?

Number sentence _____

4. Julia wants to buy one loaf of bread for 99¢ and a pear for 33¢. How much money does Julia need?

Number sentence _____

5. Johnny spent 37¢ at the grocery store. He gave Mr. Montes $1.00. How much change did Johnny get back?

Number sentence _____
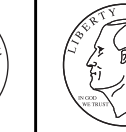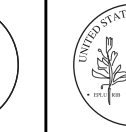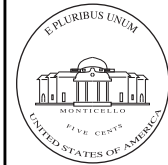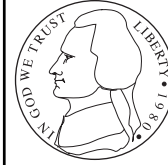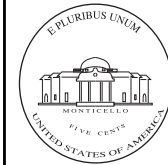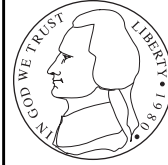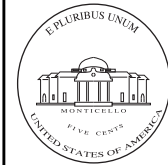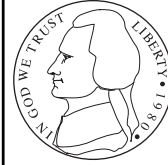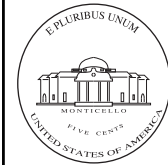
6. Mara spent $1.71 at the grocery store. She bought a loaf of bread for 98¢, a can of soup for 50¢, and a peach. How much did the peach cost?

Number sentence _____

200 Chart

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
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

Coin Bank

Zoo Gift Shop: Little Animals

Homework

Dear Family Member:

Help your child read the problems. Ask him or her to show you how to solve the problems using the number line.

Thank you.

Solve the problems using the animal prices and the number line.

1. How much will a parrot and a pig cost?

Number sentence ——————————————————————

2. You have 35¢. Choose two animals to buy. How much will they cost?

Animals: ——————————————————————

Number sentence ——————————————————————

3. If you give the clerk 35¢ to pay for these two animals, how much change will you get?

Number sentence ——————————————————————

4. How much will an elephant and a monkey cost?
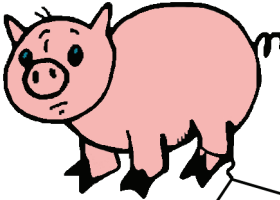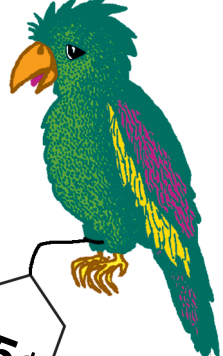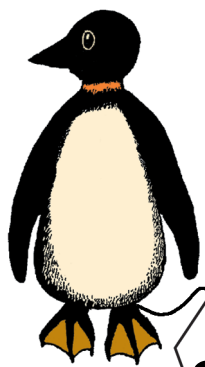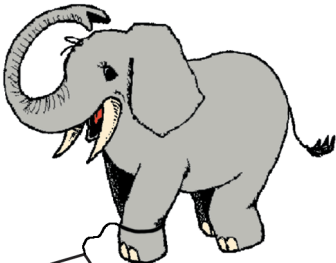
Number sentence ——————————————————————

5. How much will a wolf, a pig, and a frog cost?

Number sentence ——————————————————————

Zoo Gift Shop: Little Animals

5¢	9¢	10¢
11¢	15¢	20¢
25¢	29¢	31¢

Number Line 0-40

Zoo Gift Shop: Animal Figures

Homework

Dear Family Member:

Help your child read the problems. Ask him or her to show you how to solve the problems using the *200 Chart.*

Thank you.

Solve the problem using the animal prices and the *200 Chart.*

1. How much will a frog and a wolf cost?

Number sentence _____

2. You have 75¢. Choose two animals to buy. How much will they cost?

Animals: _____

Number sentence _____

3. If you give the clerk 75¢ to pay for these two animals, how much change will you get?
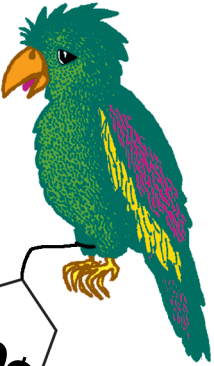
Number sentence _____

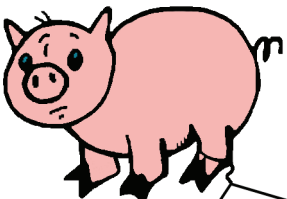**4.** How much will an elephant and a monkey cost?
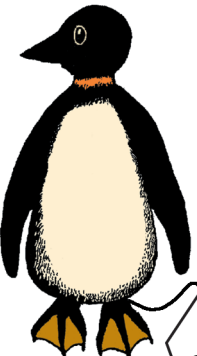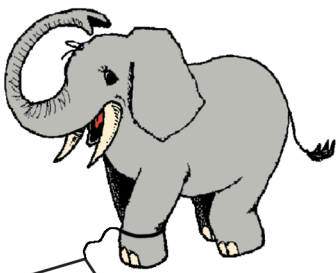
Number sentence _____

5. How much will a penguin, a pig, and a sheep cost?

Number sentence _____

Zoo Gift Shop: Animal Figures

9¢ 10¢ 11¢

20¢ 50¢ 35¢

66¢ 75¢ 89¢

200 Chart

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
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200