

# BOUNDING AND ROUNDING

**Purpose:** Students will retrieve numbers, analyze and round to the closest ten (or assigned place value according to the grade level).

**Suggested Grade Level:** 2-5

**Math SOL:** Numbers and Number Sense 2.1, 3.1, 4.1, 5.1

## **Equipment/Materials Needed:**

1. Eleven hula hoops or paper plates for inside
2. Pre-cut numbers 1-99 not including the tens (provided)
3. Labels for hoops (provided) you are studying.

## **Advance Preparation:**

1. Place hoops down in a large outdoor area or gymnasium to create a large circle. (See modification #3 to adjust for inside a classroom).
2. Label hoops with 0, 10, 20 – 100 but do not put the hoops in numerical order.
3. Scatter the numbers 1-99 inside the hooped off area.

## **Directions:**

1. Explain to students that they will be practicing rounding using physical activity.
2. On the “go” signal, instruct students to skip (or whatever physical activity you choose) to collect a number out of the center of the circle.
3. Once retrieved, instruct students to take the number to the hoop in which it belongs.
4. Repeat process until all numbers are gone.
5. Take students to each hoop to check to see if the numbers are in the correct location. If they are not, discuss why it does not belong and where it should go.

## **Teaching Suggestions:**

1. Remind students they are picking up one number at a time.
2. Spread students out by having groups of students begin at each hoop and so they know where at least one of the major numbers is located a
3. Underline numbers that when upside down make another number, or look like another number. Ex. 69, 96, 6, 9, 18, 81, etc.

## **Modifications/Variations:**

1. Do this in partners or groups. Have one student go, get a number and bring it back to their partner(s). Together they verify what the rounded number should be, and the first student takes it to the corresponding hoop. Repeat this with each student in the pair or group.
2. Use this game with decimals or rounding to a specific hundred/thousand. For example, hoops are labeled between 1000 and 2000 and the students have to round to the nearest hundred.(ALSO PROVIDED)
3. Stay inside and use paper plates in place of hoops. If you have a document camera available, it can be used to view numbers that were placed in a plate and the class can check their work as a whole from their desks.

*This lesson was developed by the School Health Initiative Program (SHIP) for the Williamsburg James City County Public Schools (WJCCPS), Williamsburg, VA. SHIP is funded by the Williamsburg Community Health Foundation (WCHF). Parts or all of this lesson can be used and reproduced without permission provided that SHIP, WJCCPS and WCHF are credited.*



Williamsburg Community  
Health Foundation

1	2	3	4	5
<u>6</u>	7	8	<u>9</u>	11
12	13	14	15	16
17	<u>18</u>	19	21	22
23	24	25	26	27
28	29	31	32	33

34

35

36

37

38

39

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

61

62

63

64

65

66

67

68

69

71

72

73

74

75

76

77

78

79

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

0

---

10

---

20

---

30

---

40

---

50

---

60

---

70

---

80

---



90

---

100

---

1,120	1,150	1,210
1,145	1,175	1,215
1,137	1,168	1,225
1,111	1,189	1,105
1,244	1,249	1,190
1,250	1,302	1,351
1,264	1,333	1,361
1,279	1,324	1,380

1,299	1,340	1,384
1,255	1,349	1,393
1,410	1,450	1,505
1,420	1,460	1,508
1,430	1,470	1,515
1,440	1,474	1,522
1,405	1,488	1,539
1,555	1,607	1,659

1,566	1,626	1,671
1,577	1,693	1,638
1,588	1,649	1,677
1,599	1,627	1,692
1,711	1,751	1,804
1,721	1,762	1,815
1,707	1,773	1,826
1,747	1,784	1,837

1,732	1,795	1,848
1,853	1,862	1,915
1,950	1,871	1,926
1,904	1,957	1,999
1,880	1,931	1,968
1,897	1,942	1,977

1,000

---

1,100

---

1,200

---

1,300

---

1,400

---

1,500

---

1,600

---

1,700

---

1,800

---



1,900

---

2,000

---