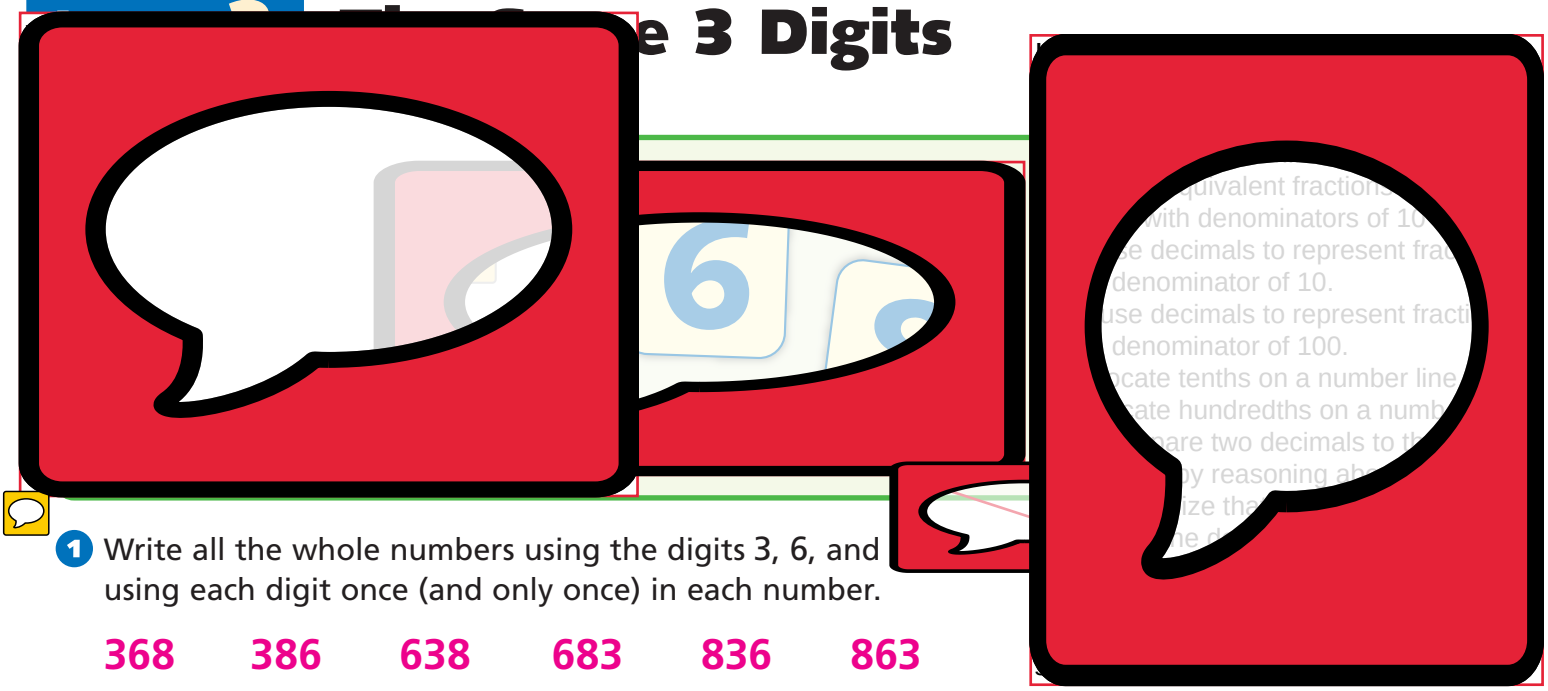
e 3 Digits



1 Write all the whole numbers using the digits 3, 6, and 8 using each digit once (and only once) in each number.

368 386 638 683 836 863

2 Use the digits 3, 6, and 8 to make numbers with one or two digits after the decimal point. Use each digit once (and only once) in each number. Make as many different numbers as you can.

3.68, 36.8, 3.86, 38.6

6.38, 63.8, 6.83, 68.3

8.36, 83.6, 8.63, 86.3

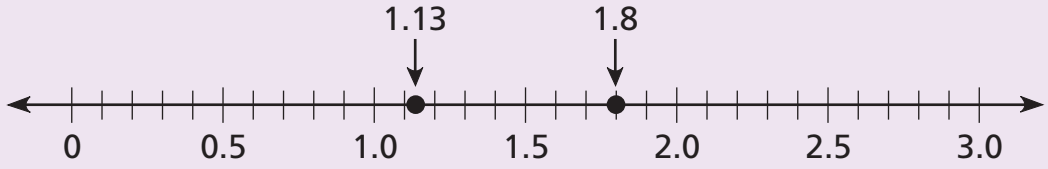
3 How can you be sure you found all the numbers?

Answers will vary. Make an organized list. Each ordering of the three digits is used twice, because there are two possible locations for the decimal point.

Compare and Order Decimals

You can use a number line to compare and order decimals.

Example 1 Compare 1.13 and 1.8.



- 1.13 is to the left of 1.8, so 1.13 is less than 1.8. $1.13 < 1.8$
- 1.8 is to the right of 1.13, so 1.8 is greater than 1.13. $1.8 > 1.13$

Use an open number line>

7.80
Use an open number line>

Use an open number line>

Use a number line>

9. Order from least to greatest.
2.14, 2.04, 2.41

10. Order from greatest to least.
0.452, 0.367, 1.4, 0.60

Making Decimal Numbers Instructions

How to Play the Game

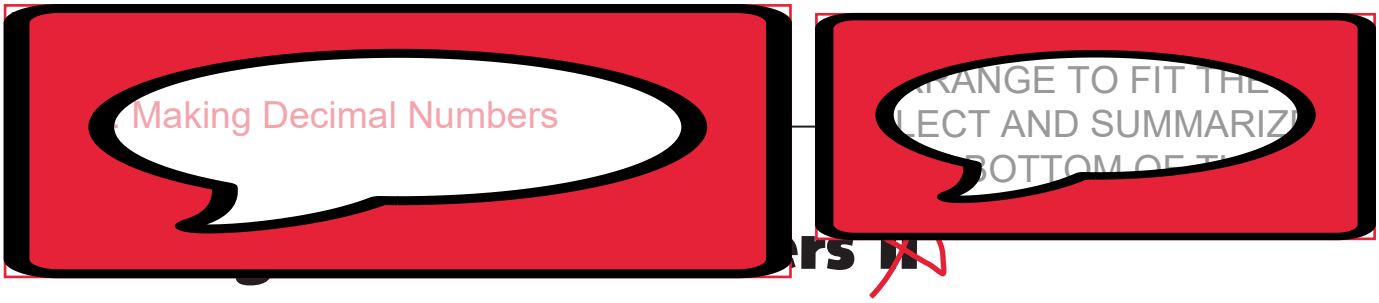
1. Both players roll a number cube to assign the $<$ and $>$ symbols. The player who rolls lowest gets $<$. The player who rolls highest gets $>$. Each player records his or her symbol in all of the circles on their page.

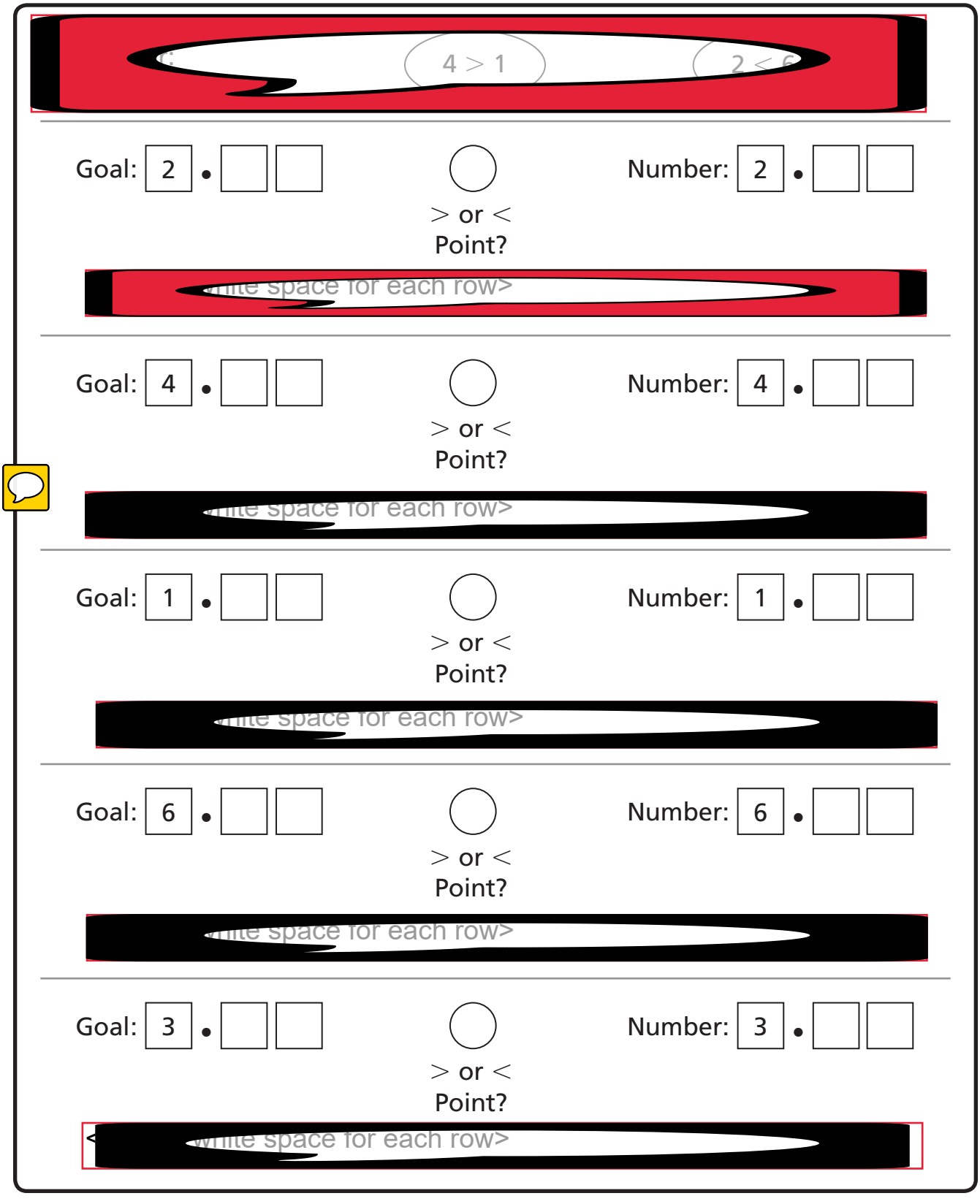
2. One player rolls the number cube two or three times to get the digits in the goal number. Players record the digits in order as they are rolled.

3. The second player rolls the number cube two or three times to find the digits in the other number. Each player puts the digits in any order and records the number on the page.

4. Each player compares his or her number to the goal number. If the relationship between the numbers matches the symbol in the circle, the player gets a point and circles the ✓. If the relationship doesn't match, the player doesn't get a point and circles the ✘.

5. The player with the most points (circled ✓s) after 5 rounds wins.





Goal: 2 . ☐☐ ◯ Number: 2 . ☐☐

> or <

Point?

Goal: 4 . ☐☐ ◯ Number: 4 . ☐☐

> or <

Point?

Goal: 1 . ☐☐ ◯ Number: 1 . ☐☐

> or <

Point?

Goal: 6 . ☐☐ ◯ Number: 6 . ☐☐

> or <

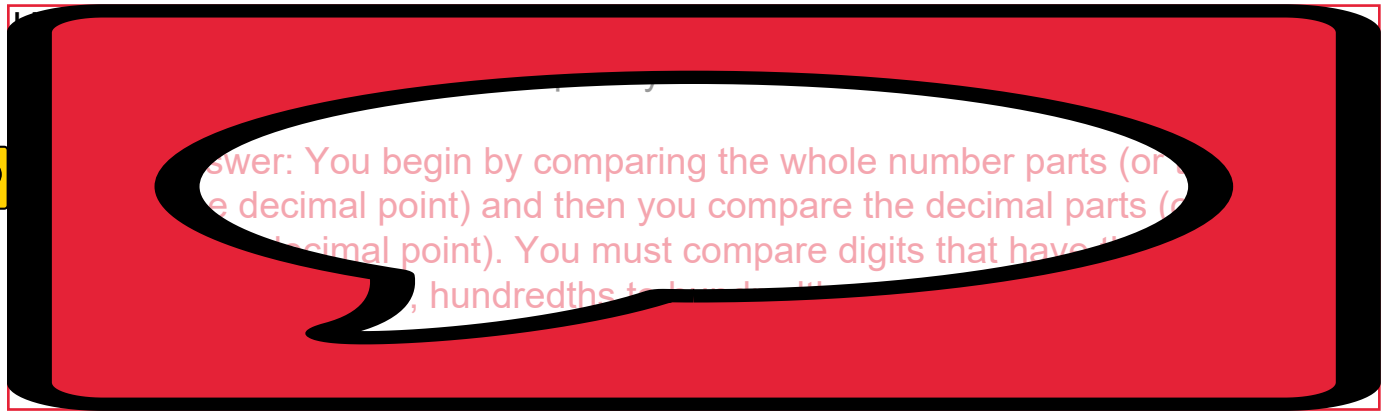
Point?

Goal: 3 . ☐☐ ◯ Number: 3 . ☐☐

> or <

Point?


TO THE BOTTOM OF THE GAME BOARD


swer: You begin by comparing the whole number parts (or
e decimal point) and then you compare the decimal parts (
cimal point). You must compare digits that have
, hundredths

Comparing and Ordering Decimals

Write the numbers in order from least to greatest.

1. 1.23 2.13 21.3 _____ _____ _____

2. 32.1 23.1 1.31 _____ _____ _____

3. 13.1 12.3 2.31 _____ _____ _____

4. 3.12 3.21 31.2 _____ _____ _____

Write >, <, or = to complete the number sentence.

7. 12.02 ◯ 21.01

8. 30.6 ◯ 30.42

9. 4.5 ◯ 4.52

10. 6.002 ◯ 5.9

11. 72.9 ◯ 72.90

12. 28.070 ◯ 28.70

13. 9.8 ◯ 9.10

14. 64.321 ◯ 64.32

15 Write the numbers in order from least to greatest.

589.467 587.946 687.954 589.746 689.574

_____ _____ _____ _____ _____

Circle the smallest number in each set.

10	3.2	3.02	3.20	11	9.98	8.98	9.89
16	14.602	14.61	14.59	17	101.2	10.12	1.012
18	45.901	45.19	45.2	19	3.2	3.14	3.015

20 Keith said that 7.445 is larger than 7.45 because 7.445 has more digits to the right of the decimal point. Is he correct? Explain.

_____

_____

21 **Challenge** Terrell ran the 40-yard dash in 4.6 seconds. His teammate Troy ran it in 4.39 seconds.

Who was faster? Explain how you know.

_____

_____

What is the difference between the two times?

_____

...any real-world examples that would require yo...
...xplain.

...of any real-world example that would require you to...