CHAPTER 2

4

Name: _____ Date: _____

Comparing and Ordering Numbers

Goal **Compare and order numbers with up to five digits.**

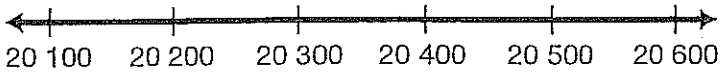
1.

Blue Jays' opponents	Average attendance in Toronto	Average attendance at opponent's stadium
Orioles	20 572	27 955
Devil Rays	20 459	9048
Expos	31 571	12 782
Yankees	27 205	33 916
Angels	20 106	41 088

a) Which teams had a greater attendance when in their home stadium?

_____

b) Show the attendance of three games on the number line.



At-Home Help

When comparing and ordering numbers up to five digits, compare the digits in this order:
- ten thousand
- thousand
- hundred
- ten
- one

You can also compare and order numbers by their positions on a number line.

Inequality signs $<$ and $>$ show that one number is greater than another.

For example, $8 > 5$ is read "eight is greater than five."

$5 < 8$ is read "five is less than eight."

2. Complete each number sentence using $<$ or $>$.

a) 20 899 ____ 20 100 c) 45 072 ____ 47 072 e) 90 000 ____ 89 999

b) 3687 ____ 3675 d) 24 531 ____ 23 154 f) 19 560 ____ 20 650

3. Order each group of numbers from greatest to least using inequality signs.

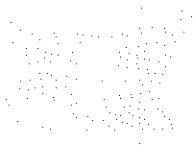
a) 14 532 8927 41 536 50 001

_____

b) 67 013 6713 67 130 67 103

_____

4. Adrian collected pennies for a penny drive. He wrote the total number of pennies on separate cards. Each card had a 1, 8, 3, 5, or 4. The cards got all mixed up. He knew that the number of pennies was between 20 000 and 45 000. List three possibilities for the number of pennies.



Name : _____ Score : _____

Teacher : _____ Date : _____

Write the Numbers in Expanded Form.

1) 166,245 _____

2) 583,255 _____

3) 891,938 _____

4) 832,835 _____

5) 278,465 _____

6) 297,743 _____

7) 224,259 _____

8) 898,273 _____

9) 317,933 _____

10) 839,486 _____

11) 652,511 _____

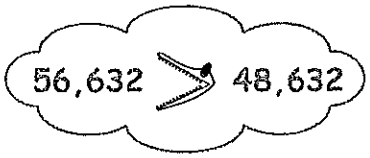
12) 713,791 _____

13) 823,599 _____

14) 658,170 _____

15) 657,585 _____

Name : _____ Score : _____



Ordering Numbers

Compare and order the numbers.

1) 75,468 24,564 82,456 58,159 61,753

_____ < _____ < _____ < _____ < _____

2) 63,486 42,573 94,017 40,673 19,376

_____ < _____ < _____ < _____ < _____

3) 31,405 27,846 67,647 74,157 57,148

_____ > _____ > _____ > _____ > _____

4) 20,361 92,423 36,152 41,725 54,480

_____ > _____ > _____ > _____ > _____

5) 83,507 41,154 28,673 15,489 34,476

_____ < _____ < _____ < _____ < _____

6) 44,789 62,746 37,185 97,506 74,420

_____ > _____ > _____ > _____ > _____

7) 54,698 83,436 73,638 46,100 65,840

_____ < _____ < _____ < _____ < _____

Rounding Within 1 Million

Name:

Round each number to the place value specified.

1) Round 168,356 to the nearest ten thousand.

2) Round 446,221 to the nearest ten.

3) Round 45,122 to the nearest ten thousand.

4) Round 7,782 to the nearest hundred.

5) Round 992,449 to the nearest hundred thousand.

6) Round 9,254 to the nearest hundred.

7) Round 5,068 to the nearest ten.

8) Round 5,282 to the nearest ten.

9) Round 813 to the nearest ten.

10) Round 223 to the nearest ten.

11) Round 44,769 to the nearest ten.

12) Round 76,340 to the nearest thousand.

13) Round 924 to the nearest ten.

14) Round 222,702 to the nearest ten thousand.

15) Round 82,321 to the nearest hundred.

16) Round 5,479 to the nearest hundred.

17) Round 527 to the nearest hundred.

18) Round 913,610 to the nearest ten.

19) Round 88,347 to the nearest hundred.

20) Round 630 to the nearest ten.

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

CHAPTER 2

7

Name: _____ Date: _____

Decimal Hundredths

Goal **Read, write, and represent decimal hundredths.**

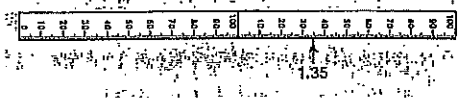
1. In gym class, students practised long jump in the sandpit. Paige recorded her friends' jumps in a chart.

Long jump distances	
Sean	1.27 m
Dan	0.96 m
Lisa	1.36 m

At-Home Help

The number 1.35 is read "one and thirty-five hundredths."

This number can be represented on a metre stick number line.



a) Use words to represent each distance.

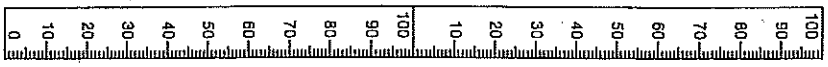
_____

_____

_____

_____

b) Mark each distance on the metre stick number line.



2. Write each decimal number in standard form.

a) six and seven hundredths _____

b) five and ten hundredths _____

c) fourteen and fifteen hundredths _____

d) twenty-six hundredths _____

3. Write a decimal number in standard form to fit each description.

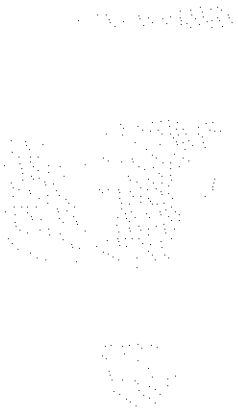
a) 1 tenth greater than 4.16 _____

b) 1 greater than 4.16 _____

c) 1 hundredth greater than 4.16 _____

4. Sally's best long jump distance is 1.63 m. Write in words how you would read her distance.

_____



Practice

Rounding Decimals

1. Round to the nearest whole number.

a) 4.78	**b)** 6.31	**c)** 5.09	**d)** 1.98	**e)** 3.2	**f)** 12.50
g) 7.49	**h)** 11.71	**i)** 40.12	**j)** 4.47	**k)** 1.25	**l)** 3.62

2. Round to the nearest dollar.

a) \$4.78	**b)** \$1.22	**c)** \$7.50	**d)** \$3.99
e) \$6.27	**f)** \$4.49	**g)** \$0.97	**h)** \$21.55

3. Which decimals could be rounded to each circled number? Explain.

a) ⑦ 6.42, 7.1, 6.08	**b)** ⑨ 8.50, 9.43, 9.01
c) ② 1.9, 2.8, 1.50	**d)** ④ 0.09, 3.89, 4.44

4. The toonie has a mass of 7.3 g and a thickness of 1.8 mm.
Round each measurement to the nearest whole number.

5. The 1908 penny has a mass of 5.67 g and a width of 25.4 mm.
Round each measurement to the nearest whole number.

6. The biggest earthworm ever found was 6.7 m long and 2.03 cm wide.
Round each measurement to the nearest whole number.

7. A runner's time in the 100-m dash is about 11 seconds when rounded to the nearest second.
Suppose the time was recorded to the nearest hundredth of a second.
What are the fastest and slowest possible times?

8. Use the digits 4, 5, and 6.

a) Write as many decimals as you can that round to 5 when rounded to the nearest whole number.

b) Order the decimals from least to greatest.

c) Suppose the digit 5 was replaced with 3.
How would this affect your results? Explain.

Reflect

Choose a number with a digit in the hundredths place.
How would you round your number to the nearest whole number?

Name: _____

Chapter 2 Pre-test

1. Write each decimal in standard form:

four and fifteen hundredths

_____

thirty six hundredths

_____

sixteen and seven hundredths

_____

eight hundredths

_____

2. Write each decimal in written form:

0.27 _____

16.58 _____

0.03 _____

42.05 _____

3. Write each decimal in expanded form:

54.83 _____

29.01 _____

12.02 _____

0.34 _____

4. Write a decimal in standard form for each description:

One tenth greater than 5.67_____ One hundredth greater than 5.67 _____

5. Complete the chart

	6.48	54.76	1.9	15.12
Value in the tenths place				
Value in the hundredths place				

6. Write an equivalent decimal for each of the following:

0.30 = _____ 3.80 = _____

0.5 = _____ 0.1 = _____

7. Complete each number sentence using < or >

1.67 ___ 2.40 2.4 ___ 2.42

5.09 ___ 4.67 26.13 ___ 25.98

8. Order each set of numbers from least to greatest:

2.19, 3.41, 9.91, 0.57 _____

26.10, 13.09, 26.18, 10.85 _____

0.22, 0.08, 0.65, 0.1 _____

9. Round each number to complete the chart:

	Round to the nearest whole number	Round to the nearest tenth	Round to the nearest hundredth
3.89			
0.51			
17.36			
68.06			

10. What number am I? (Give at least three answers)

- I am greater than 1.7 but less than 3.82
- I am an odd number
- I do not have an equivalent decimal
- I round to 2 and 2.4

I am: _____, _____, _____

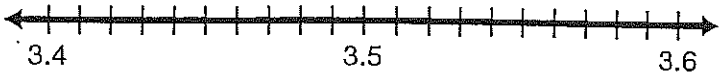
CHAPTER 2 9

Name: _____ Date: _____

Rounding Decimals

Goal **Interpret rounded decimals, and round decimals to the nearest whole and to the nearest tenth.**

1. Sarah rounded the length of her room to the nearest tenth of a metre. The length is 3.5 m.



a) Write the numbers that round up from 3.4 to 3.5.

_____

_____

b) Write the numbers that round down to 3.5.

_____

_____

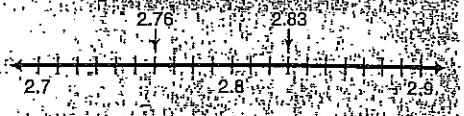
At-Home Help

Decimal numbers can be rounded to the nearest whole number and the nearest tenth.

For example,

- 2.76 rounds up to 2.8
- 2.83 rounds down to 2.8

A number line helps with rounding.



Both 2.76 and 2.83 round up to 3.

2. Lori needs 4.47 m of ribbon for a school play.

a) How much ribbon should she buy if ribbon is sold in lengths of whole metres?

_____

b) How much ribbon should she buy if ribbon is sold in lengths of tenths of a metre?

_____

3. Round each number to the nearest whole number and the nearest tenth.

a) 3.65 _____ _____

b) 7.03 _____ _____

c) 0.79 _____ _____

d) 7.93 _____ _____

4. A gardener needs 8.74 m of hose to water a lawn.

a) Round that length to the nearest tenth of a metre. _____

b) Should he buy a hose of that length or a different length? Explain.

_____

5. A number rounded to the nearest tenth is 7.9. What might the number be? List three possibilities.

_____

(Try completing this review before looking at the answers found on the bottom of page 2)

Name: _____

Chapter 2 Test Review

1. Write each decimal in standard form:

seven and three hundredths _____

sixteen and eleven hundredths _____

2. Write each decimal in written form:

0.54 _____

23.09 _____

3. Write each decimal in expanded form:

63.72 _____

4.01 _____

4. Write a decimal in standard form for each description:

One tenth greater than 7.33_____ One hundredth greater than 7.33 _____

5. Write an equivalent decimal for each of the following:

0.90 = _____ 0.6 = _____

6. Complete each number sentence using < or >

12.37 ___ 12.40 9.05 ___ 8.67

7. Order each set of numbers from least to greatest:

5.16, 4.47, 4.91, 4.57 _____

6.10, 3.09, 6.18, 10.81 _____

8. Round each number to complete the chart:

	Round to the nearest whole number	Round to the nearest tenth
6.79		
0.91		
10.36		
29.14		

Answers

1. 7.03, 16.11

2. fifty four hundredths, twenty three and nine hundredths

3. 60 + 3 + 0.7 + 0.02, 4 + 0.01

4. 7.43, 7.34

5. 0.9, 0.60

6. 12.37 < 12.40, 9.05 > 8.67

7. 4.47, 4.57, 4.91, 5.16 3.09, 6.10, 6.18, 10.81

8. 7, 6.8 1, 0.9 10, 10.4 29, 29.1