

# Grade 6

## NUMBER SENSE & NUMERATION: COMPARING AND ORDERING DECIMALS

Don't forget to play the Ordering Decimals game first! Go to [mathfrog.ca](http://mathfrog.ca) for the link.

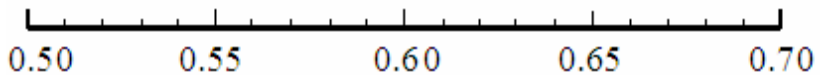
1. Fill each blank with  $>$  or  $<$ .

Remember that because 9 is greater than 5, we write  $9 > 5$ .

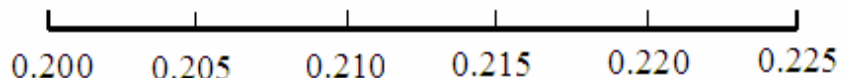
- a)  $54.45$  \_\_\_  $45.54$       b)  $0.123$  \_\_\_  $0.120$     c)  $3.333$  \_\_\_  $33.33$     d)  $1000000$  \_\_\_  $100000.01$

2. On the number line, place a dot at each of the given numbers.

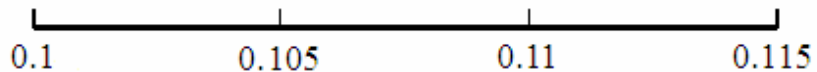
- a) 0.57, 0.68, 0.60



- b) 0.223, 0.210, 0.207

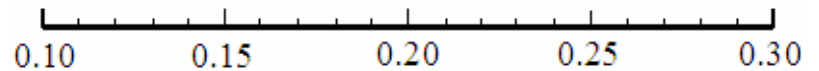


- c) 0.105, 0.110, 0.113



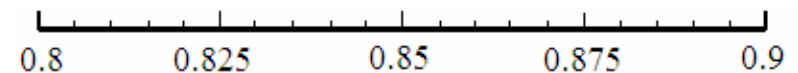
3. On the number line, place a dot at each of the six decimals. Then, write the decimals in order.

- a) 0.123, 0.112, 0.212, 0.221, 0.121, 0.222



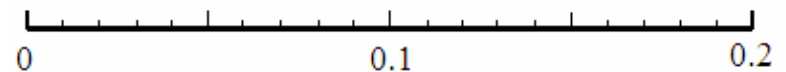
Decimals: \_\_\_\_\_

- b) 0.8, 0.88, 0.89, 0.898, 0.888, 0.869



Decimals: \_\_\_\_\_

- c) 0.2, 0.02, 0.002, 0.01, 0.1, 0.12



Decimals: \_\_\_\_\_

4. a) Match each decimal with a picture of the corresponding fraction. One has been done for you.

0.25	•	•	
0.5	•	•	
0.2	•	•	
0.4	•	•	
0.333	•	•	

A line connects the decimal 0.25 to the bar with 3 out of 4 parts shaded.

**DID YOU KNOW?**  
 There are 293 different ways to make change for a dollar! One example is 50¢, 25¢, 10¢, 10¢, 1¢, 1¢, 1¢, 1¢.

b) Write these decimals in order from smallest to largest.

5. Eight runners competed in the final of the men's 100-meter dash in the 1996 Summer Olympics. Their times, in seconds, are listed below.

Runner	Time (s)
Ato Bolden	9.90
Davidson Ezinwa	10.14
Linford Christie	Disqualified
Donovan Bailey	9.84
Frankie Fredericks	9.89
Michael Green	10.16
Mike Marsh	10.00
Dennis Mitchell	9.99



- a) Write the names of the medalists.
- Gold: \_\_\_\_\_
- Silver: \_\_\_\_\_
- Bronze: \_\_\_\_\_
- b) Of the seven finishers, who was last? \_\_\_\_\_
- c) The world record before this race was 9.85 seconds. Was a new world record created? \_\_\_\_\_

6. Five students play a game with their calculators. Each generates a random decimal. The student with the highest number wins. The results are displayed in the chart.

- a) For each game, circle the winning number.
- b) Who won the most games? \_\_\_\_\_
- c) Who placed third most often? \_\_\_\_\_



	Amy	Bert	Carl	Dan	Emily
Game 1	0.741	0.53	0.714	0.503	0.417
Game 2	0.841	0.854	0.9	0.909	0.845
Game 3	0.873	0.833	0.837	0.383	0.388

### TRY THIS!

Five teams, Alpha, Beta, Gamma, Delta, and Epsilon, competed in a relay race. Their finishing times were 53.070 s, 50.371 s, 53.170 s, 50.317 s, and 53.017 s. Use the following clues to complete the table below.

- Delta took longer than 53.030 seconds.
- Beta and Gamma both finished before Alpha.
- Beta finished before both Epsilon and the team whose time was between 53.01 seconds and 53.02 seconds.
- Gamma took longer than 50.373 seconds.
- Alpha took less than 53.075 seconds.

Place	Time (s)	Team
1 <sup>st</sup>		
2 <sup>nd</sup>		
3 <sup>rd</sup>		
4 <sup>th</sup>		
5 <sup>th</sup>		

