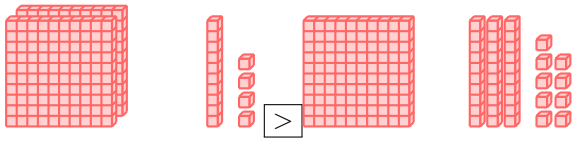


# COMPARING 3-DIGIT NUMBERS

## A DEFINITIONS

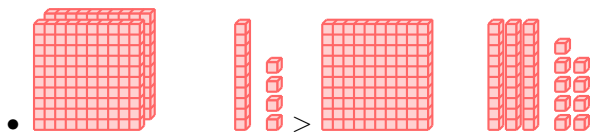
### A.1 COMPARING NUMBERS OF CUBES

Ex 1:



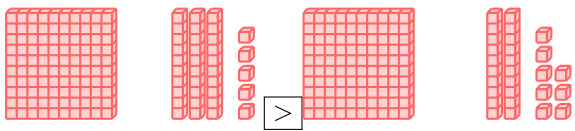
Answer:

- $>$  means *greater than*.
- $<$  means *less than*.
- $=$  means *equal to*.



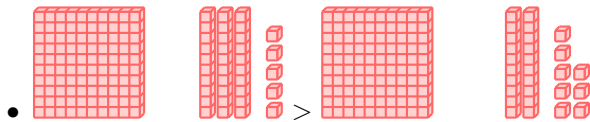
- $214 > 139$

Ex 2:



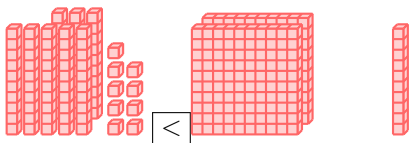
Answer:

- $>$  means *greater than*.
- $<$  means *less than*.
- $=$  means *equal to*.



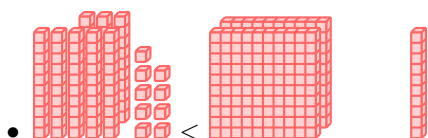
- $135 > 128$

Ex 3:



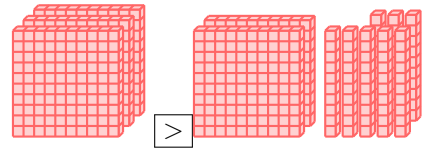
Answer:

- $>$  means *greater than*.
- $<$  means *less than*.
- $=$  means *equal to*.



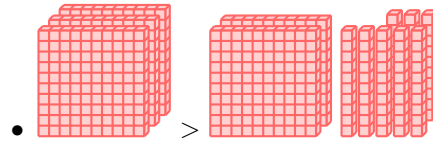
- $89 < 210$

Ex 4:



Answer:

- $>$  means *greater than*.
- $<$  means *less than*.
- $=$  means *equal to*.



- $300 > 280$

## B HOW TO COMPARE 3-DIGIT NUMBERS

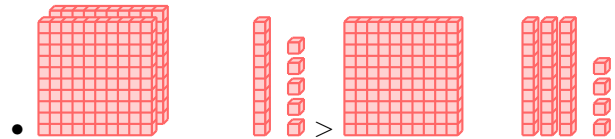
### B.1 COMPARING NUMBERS

Ex 5:

$$215 > 134$$

Answer:

- Since 2 in the hundreds place of 215 is greater than 1 in the hundreds place of 134, 215 is greater than 134.



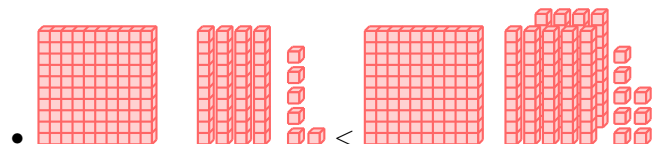
- $215 > 134$

Ex 6:

$$146 < 198$$

Answer:

- Since 1 in the hundreds place of 146 is less than 1 in the hundreds place of 198, 146 is less than 198.



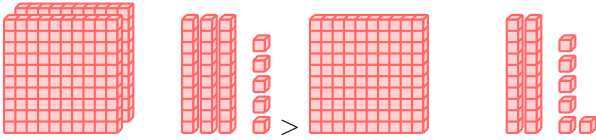
- $146 < 198$

Ex 7:

$$235 > 126$$

Answer:

- Since 2 in the hundreds place of 235 is greater than 1 in the hundreds place of 126, 235 is greater than 126.



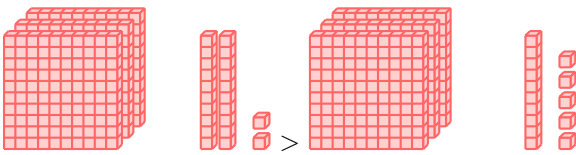
- $235 > 126$

**Ex 8:**

$$322 \boxed{>} 315$$

*Answer:*

- Since both numbers have 3 in the hundreds place, we look at the tens place. Since 2 in the tens place of 322 is greater than 1 in the tens place of 315, 322 is greater than 315.



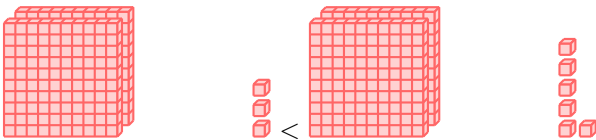
- $322 > 315$

**Ex 9:**

$$203 \boxed{<} 206$$

*Answer:*

- Since both numbers have the same digits in the hundreds and tens places, we compare the ones place. Since 3 in the ones place of 203 is less than 6 in the ones place of 206, 203 is less than 206.



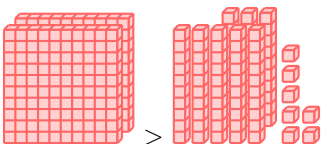
- $203 < 206$

**Ex 10:**

$$200 \boxed{>} 87$$

*Answer:*

- Since 2 in the hundreds place of 200 is greater than 0 in the hundreds place of 87, 200 is greater than 87.



- $200 > 87$

## B.2 ORDERING NUMBERS

**MCQ 11:** Order the following numbers from least to greatest:

128, 75, 190, 36

Choose one answer:

- $128 < 75 < 190 < 36$
- $36 < 75 < 128 < 190$
- $75 < 128 < 36 < 190$
- $190 < 128 < 75 < 36$

*Answer:*

- 3 tens and 6 ones  $<$  7 tens and 5 ones  $<$  1 hundred and 2 tens and 8 ones  $<$  1 hundred and 9 tens
- $36 < 75 < 128 < 190$

**MCQ 12:** Order the following numbers from least to greatest:

255, 103, 210, 87

Choose one answer:

- $255 < 103 < 210 < 87$
- $87 < 210 < 255 < 103$
- $87 < 103 < 210 < 255$
- $210 < 255 < 87 < 103$

*Answer:*

- 8 tens and 7 ones  $<$  1 hundred and 3 ones  $<$  2 hundreds and 1 ten  $<$  2 hundreds and 5 tens and 5 ones
- $87 < 103 < 210 < 255$

**MCQ 13:** Order the following numbers from least to greatest:

324, 450, 299, 170

Choose one answer:

- $450 < 324 < 170 < 299$
- $170 < 299 < 324 < 450$
- $324 < 299 < 170 < 450$
- $299 < 170 < 450 < 324$

*Answer:*

- 1 hundred and 7 tens  $<$  2 hundreds and 9 tens and 9 ones  $<$  3 hundreds and 2 tens and 4 ones  $<$  4 hundreds and 5 tens
- $170 < 299 < 324 < 450$

**MCQ 14:** Order the following numbers from least to greatest:

504, 408, 301, 212

Choose one answer:

- $504 < 408 < 301 < 212$
- $301 < 408 < 212 < 504$
- $504 < 301 < 212 < 408$
- $212 < 301 < 408 < 504$

Answer:

- 2 hundreds and 1 ten and 2 ones  $<$  3 hundreds and 1 one  $<$  4 hundreds and 8 ones  $<$  5 hundreds and 4 ones
- $212 < 301 < 408 < 504$

### B.3 COMPARING NUMBERS IN REAL-WORLD PROBLEMS

**MCQ 15:** Emma traveled approximately 516 kilometers on a road trip.  
Her friend traveled approximately 440 kilometers.  
Who traveled more kilometers?

- Emma
- Her friend
- They traveled the same number of kilometers.

Answer:

- 516 kilometers is greater than 440 kilometers.
- Since  $516 > 440$ , Emma traveled more kilometers than her friend.

**MCQ 16:** In a rallye lecture competition, Class A read 214 books.  
Class B read 189 books.  
Which class read more books?

- Class A
- Class B
- Both classes read the same number of books.

Answer:

- $214 = 2$  hundreds, 1 ten, and 4 ones.
- $189 = 1$  hundred, 8 tens, and 9 ones.
- Since  $214 > 189$ , Class A read more books than Class B.

**MCQ 17:** In a game, Jake scored 156 points.  
Liam scored 182 points.  
Who scored more points?

- Jake
- Liam
- They scored the same number of points.

Answer:

- $156 = 1$  hundred, 5 tens, and 6 ones.
- $182 = 1$  hundred, 8 tens, and 2 ones.

- Since  $182 > 156$ , Liam scored more points than Jake.

**MCQ 18:** Anna is 129 cm tall.  
Her friend Leo is 124 cm tall.  
Who is taller?

- Anna
- Leo
- They are the same height.

Answer:

- $129 \text{ cm} = 1$  hundred, 2 tens, and 9 ones.
- $124 \text{ cm} = 1$  hundred, 2 tens, and 4 ones.
- Since  $129 > 124$ , Anna is taller than Leo.