

Step 9: Compare 4-digit Numbers

Introduction

Compare the following numbers using $>$ and $<$ symbols.

345

354

809

789

1,460

1,640

3,720

3,750

4,590

4,490

Introduction

Compare the following numbers using $>$ and $<$ symbols.

345

$<$

354

809

$>$

789

1,460

$<$

1,640

3,720

$<$

3,750

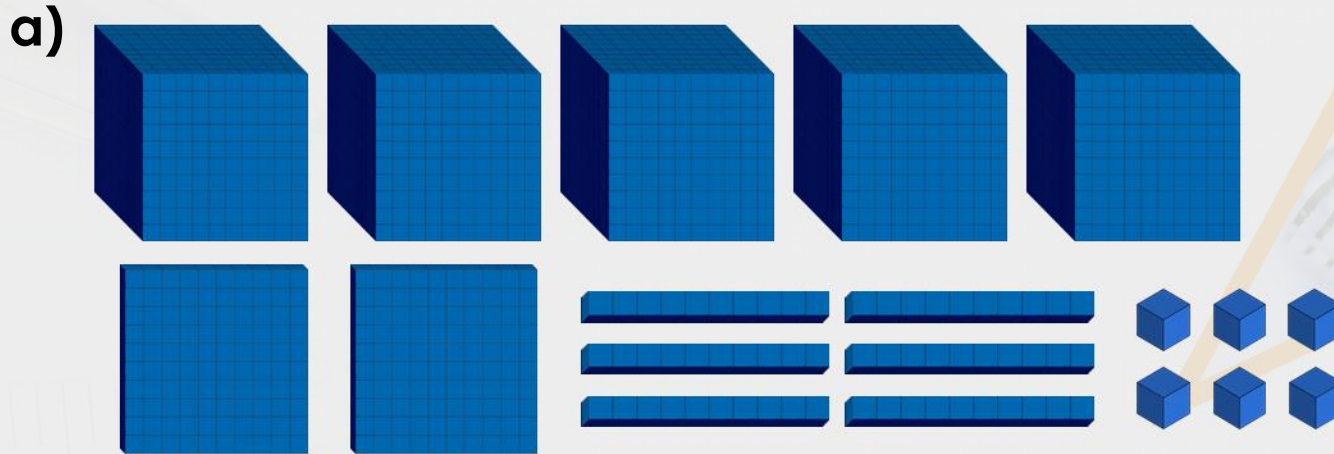
4,590

$>$

4,490

Varied Fluency 1

Which representation shows the greatest amount?

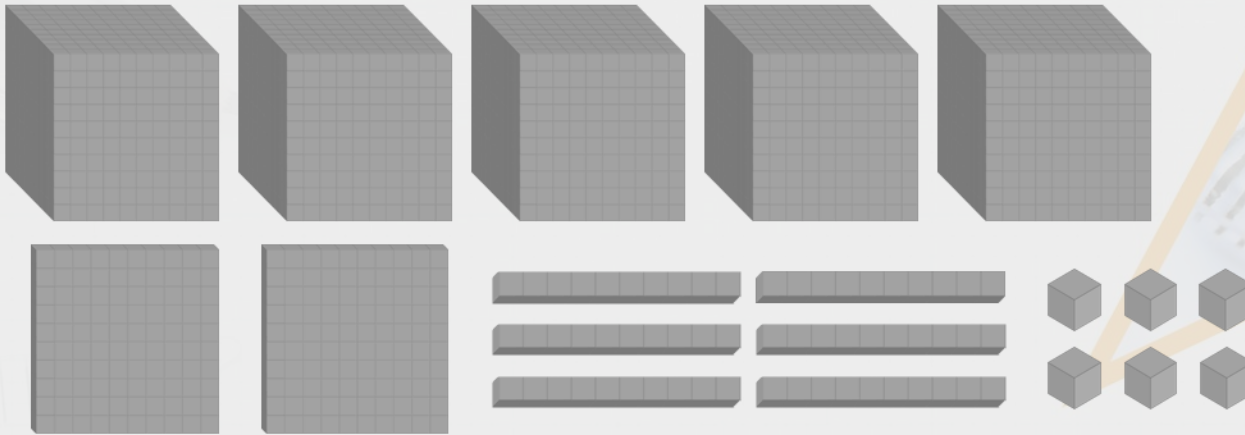


b) Five thousand, eight hundred and sixty-four

Varied Fluency 1

Which representation shows the greatest amount?

a)



b) Five thousand, eight hundred and sixty-four

Varied Fluency 2

Which number correctly completes the statement below?

One hundred more than 6,880 is less than...

a) Seven thousand and ninety-five

b) $6,000 + 100 + 80 + 5$

Varied Fluency 2

Which number correctly completes the statement below?

One hundred more than 6,880 is less than...

a) Seven thousand and ninety-five

b) $6,000 + 100 + 80 + 5$

Varied Fluency 3

Which two digit cards correctly complete the statement below?

2

6

8

9

4

3

>

Eight thousand, six
hundred and fifty-one

Varied Fluency 3

Which two digit cards correctly complete the statement below?

2

6

8

9

Various answers, for example:

9

4

8

3

>

Eight thousand, six
hundred and fifty-one

Varied Fluency 4

Which statements are incorrect?

$$3,000 + 800 + 20$$

>

Four thousand, one hundred and eighty-two

4,551

>

1,000

1,000

1,000

1,000

100

100

100

10

$$6,000 + 300 + 8$$

=

Six thousand, three hundred and eighty

Varied Fluency 4

Which statements are incorrect?

$$3,000 + 800 + 20$$

>

Four thousand, one hundred and eighty-two

4,551

>

1,000

1,000

1,000

1,000

100

100

100

10

$$6,000 + 300 + 8$$

=

Six thousand, three hundred and eighty

Reasoning 1

Michael says,



If I use the digits 1 to 9 in all three numbers below, with the same digit in each number, there will always be two numbers which could correctly complete the statement.

Five thousand, two
hundred and fifty

>

 , 2 7 1
4 ,  7 1
5 , 2  1

Is Michael correct? Explain your answer.

Reasoning 1

Michael says,



If I use the digits 1 to 9 in all three numbers below, with the same digit in each number, there will always be two numbers which could correctly complete the statement.

Five thousand, two
hundred and fifty

>

 , 2 7 1
4 ,  7 1
5 , 2  1

Is Michael correct? Explain your answer.

Michael is not correct because...

Reasoning 1

Michael says,



If I use the digits 1 to 9 in all three numbers below, with the same digit in each number, there will always be two numbers which could correctly complete the statement.

Five thousand, two
hundred and fifty

>

 , 2 7 1
4 ,  7 1
5 , 2  1

Is Michael correct? Explain your answer.

Michael is not correct because when you use a digit greater than 4, only the second number will be smaller than 5,250.

Problem Solving 1

Use each digit card once to complete the statement.

5

8

2

1

3

6

<

Five thousands, five
hundreds and eight tens

2

9

>

1,000

1,000

100

10

Find five different solutions.

Problem Solving 1

Use each digit card once to complete the statement.

5

8

2

1

3

6

<

Five thousands, five
hundreds and eight tens

2

9

>

1,000

1,000

100

10

Find five different solutions.

Various answers, for example: $\underline{1},\underline{6}\underline{2}\underline{8} < 5,580$ and $\underline{3},\underline{2}\underline{5}\underline{9} > 2,110$;
 $\underline{1},\underline{6}\underline{5}\underline{8} < 5,580$ and $\underline{3},\underline{2}\underline{2}\underline{9} > 2,110$; $\underline{2},\underline{6}\underline{8}\underline{1} < 5,580$ and $\underline{5},\underline{2}\underline{3}\underline{9} > 2,110$;
 $\underline{2},\underline{6}\underline{1}\underline{3} < 5,580$ and $\underline{5},\underline{2}\underline{8}\underline{9} > 2,110$; $\underline{3},\underline{6}\underline{2}\underline{1} < 5,580$ and $\underline{8},\underline{2}\underline{5}\underline{9} > 2,110$

Reasoning 2

Damon and Molly are comparing numbers.



Damon

My number is greater than Molly's number because I have three thousands, eight hundreds, two tens and six ones.

My number is greater than Damon's because I have $3,000 + 700 + 90 + 4$.



Molly

Who is correct? Explain how you know.

Reasoning 2

Damon and Molly are comparing numbers.



Damon

My number is greater than Molly's number because I have three thousands, eight hundreds, two tens and six ones.

My number is greater than Damon's because I have $3,000 + 700 + 90 + 4$.



Molly

Who is correct? Explain how you know.

Damon is correct because...

Reasoning 2

Damon and Molly are comparing numbers.



Damon

My number is greater than Molly's number because I have three thousands, eight hundreds, two tens and six ones.

My number is greater than Damon's because I have $3,000 + 700 + 90 + 4$.



Molly

Who is correct? Explain how you know.

Damon is correct because his number totals 3,826 and Molly's number totals 3,794. 3,826 is greater than 3,794.