

Luna's Space Adventure

Grade 3 · Numbers to 100,000 · 3.2A

Name _____

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Expanded form Write it as a sum of place values.

66,569 = _____

24,928 = _____

50,308 = _____

Words to digits Write each number with digits and a comma.

forty-two thousand three hundred eighty-seven _____

ninety-five thousand six hundred seventy-nine _____

fifty-five thousand eight hundred seventeen _____

Compare Line up the places. Compare from the left.

38,380 ○ 41,761

32,015 ○ 34,204

68,393 ○ 69,551

95,430 ○ 98,962

27,927 ○ 24,923

89,026 ○ 87,238

52,207 ○ 49,274

92,163 ○ 92,163

Least to greatest Same ten thousands: look at the thousands next.

17,649 · 19,735 · 11,512 · 16,265 _____

13,615 · 14,252 · 16,556 · 11,221 _____

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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Expanded form Write it as a sum of place values.

$$66,569 = \underline{60,000 + 6,000 + 500 + 60 + 9}$$

$$24,928 = \underline{20,000 + 4,000 + 900 + 20 + 8}$$

$$50,308 = \underline{50,000 + 300 + 8}$$

Words to digits Write each number with digits and a comma.

$$\text{forty-two thousand three hundred eighty-seven} = \underline{42,387}$$

$$\text{ninety-five thousand six hundred seventy-nine} = \underline{95,679}$$

$$\text{fifty-five thousand eight hundred seventeen} = \underline{55,817}$$

Compare Line up the places. Compare from the left.

$$38,380 < 41,761$$

$$32,015 < 34,204$$

$$68,393 < 69,551$$

$$95,430 < 98,962$$

$$27,927 > 24,923$$

$$89,026 > 87,238$$

$$52,207 > 49,274$$

$$92,163 = 92,163$$

Least to greatest Same ten thousands: look at the thousands next.

$$17,649 \cdot 19,735 \cdot 11,512 \cdot 16,265 = \underline{11,512 < 16,265 < 17,649 < 19,735}$$

$$13,615 \cdot 14,252 \cdot 16,556 \cdot 11,221 = \underline{11,221 < 13,615 < 14,252 < 16,556}$$



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GUIDE

1 What this sheet practises

Reading, writing and building numbers up to 100,000 in expanded form, and comparing and ordering them.

2 A problem from the sheet, worked out

Expanded form Write it as a sum of place values.

$$66,569 = 60,000 + 6,000 + 500 + 60 + 9$$

$$24,928 = 20,000 + 4,000 + 900 + 20 + 8$$

$$50,308 = 50,000 + 300 + 8$$

How: Name each digit by its place. 47,305 is 40,000 + 7,000 + 300 + 5; a zero place is left out. Compare from the left, place by place.

3 Words to know

ten thousands the fifth place from the right

expanded form a number as a sum of place values

digit one of 0 to 9 in a number

order put from least to greatest or greatest to least

4 Watch for

- Writing 47,305 as 40,000 + 7,000 + 300 + 0 + 5, or losing a place.
- Comparing the last digits first.
- Writing forty thousand six as 40,6 or 4,006.

5 Where it fits

BEFORE

3.NBT.A.2

Add and subtract within 1000.

THIS SHEET

3.2A

Build and break apart numbers up to 100,000 by place value, including expanded form.

NEXT

4.NBT.A.2

Read, write and compare multi-digit numbers.

6 Helping at home

Read a big number from a car odometer or a news story aloud, then say it in expanded form together.

