

Tricky

Trickier

Trickiest

1a. Mirabel says,

If I use the digits 1 to 9 in the number below, the statement will always be correct.

$>$

Is Mirabel correct? Explain your answer.

★

2a. Use each digit card once to complete the statements below.

$<$

$>$

Find five different solutions.

★

3a. Zac and Emily are comparing numbers.

Zac: My number is smaller than Emily's because I have

Emily: My number is smaller than Zac's because I have 2,320.

Who is correct? Explain how you know.

★

4a. Lucas 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.

Three thousand, eight hundred and eighty  $>$

Is Lucas correct? Explain your answer.

★

5a. Use each digit card once to complete the statements below.

$<$

$>$

Find five different solutions.

★

6a. Bobby and Sarah are comparing numbers.

Bobby: My number is greater than Sarah's number because I have 5 thousands, 7 hundreds and 4 ones.

Sarah: My number is greater than Bobby's number because I have  $5,000 + 600 + 40 + 6$ .

Who is correct? Explain how you know.

★

7a. Andy 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 thousands, eleven hundreds, four tens and sixteen ones  $>$

Is Andy correct? Explain your answer.

★

8a. Use each digit card once to complete the statements below.

$<$

$>$

Find five different solutions.

★

9a. Phoebe and Beth are comparing numbers.

Phoebe: My number is greater than Beth's number because I have three thousands, sixteen hundreds, two tens and seventeen ones.

Beth: My number is greater than Phoebe's number because I have  $3,000 + 1,500 + 120 + 1$ .

Who is correct? Explain how you know.

★

Answers

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**1a. Mirabel is incorrect. The statement will never be correct because 4,112 is less than 4,123.**

**2a. Various answers, for example:**

**5,153 < 5,429 and 6,225 > 3,000**

**3a. Zac is correct because he has the same number of thousands, but he has fewer hundreds than Emily.**

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**4a.** Lucas is incorrect. Using the digits 8 or 9 will mean that fewer than two of the numbers will correctly complete the statement.

**5a.** Various answers, for example:

6,601 < 6,630 and 7,125 > 2,100

**6a.** Bobby is correct because he has the same number of thousands, but he has more hundreds than Sarah.

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**7a.** Andy is incorrect. Using any digit greater than 5 will mean that fewer than two of the numbers will correctly complete the statement.

**8a.** Various answers, for example:

1,053 < 7,415 and 9,268 > 5,682

**9a.** Phoebe is correct because she has the same number of thousands and hundreds, but she has more tens than Beth.