

Interpret a comparison of two negative numbers

NAME	DATE	SCORE / 10
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1 At noon it is -5°C where Ben lives and -3°C where Leo lives. So $-5 < -3$. What does this tell you?

- ☐ It is warmer where Ben lives than where Leo lives
- ☐ It is the same temperature where Ben and Leo live
- ☐ It is colder where Ben lives than where Leo lives

2 Noah's bank balance is $-\$9$. Maya's bank balance is $-\$7$. So $-7 > -9$. Explain what this tells you about the money Noah and Maya owe.

3 Maya's bank balance is $-\$18$. Noah's bank balance is $-\$9$. So $-9 > -18$. What does this tell you?

- ☐ Noah owes less money than Maya ☐ Noah owes more money than Maya
- ☐ Noah has money in the bank and Maya does not

4

At noon it is -19°C where Noah lives and -7°C where Ivy lives. So $-7 > -19$. Explain what this tells you about the two places.

5

At noon it is -4°C where Leo lives and -2°C where Noah lives. So $-4 < -2$. What does this tell you?

- ☐ It is warmer where Leo lives than where Noah lives
- ☐ It is colder where Leo lives than where Noah lives
- ☐ It is the same temperature where Leo and Noah live

6

Ivy's bank balance is $-\$15$. Ben's bank balance is $-\$1$. So $-1 > -15$. Explain what this tells you about the money Ivy and Ben owe.

7

Maya dives to -19 metres and Leo dives to -8 metres, below sea level. So $-19 < -8$. What does this tell you?

- ☐ Maya is above sea level ☐ Maya is deeper than Leo
- ☐ Maya is nearer the surface than Leo

8

At noon it is -9°C where Ben lives and -6°C where Leo lives. So $-6 > -9$. Explain what this tells you about the two places.

9

At noon it is -15°C where Maya lives and -4°C where Noah lives. So $-4 > -15$. What does this tell you?

- ☐ It is colder where Noah lives than where Maya lives
- ☐ It is the same temperature where Noah and Maya live
- ☐ It is warmer where Noah lives than where Maya lives

10

Maya's bank balance is $-\$6$. Ana's bank balance is $-\$2$. So $-2 > -6$. Explain what this tells you about the money Maya and Ana owe.

Interpret a comparison of two negative numbers

1 It is colder where Ben lives than where Leo lives

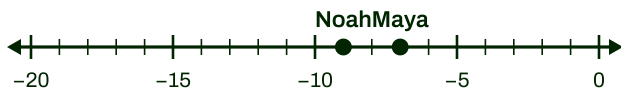
3 Noah owes less money than Maya

5 It is colder where Leo lives than where Noah lives

7 Maya is deeper than Leo

9 It is warmer where Noah lives than where Maya lives

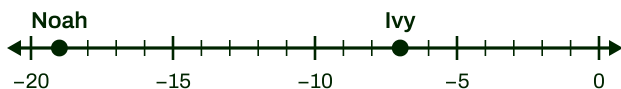
2 A written explanation



A model answer: Maya owes less money than Noah: Maya owes \$7 and Noah owes \$9. -7 is greater than -9 because it is nearer 0: it sits to the right of -9 on a number line. A balance nearer \$0 is a smaller debt.

What counts as right: Counts as right if it makes these points: (1) Maya owes less than Noah, or Noah owes more than Maya; (2) the greater balance is the one nearer \$0, so it is the smaller debt. Saying Maya owes more does not count.

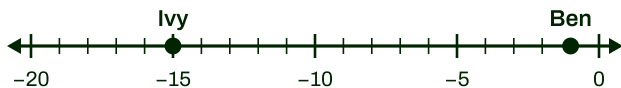
4 A written explanation



A model answer: It is warmer where Ivy lives. -7 is greater than -19 because it is nearer 0: it sits to the right of -19 on a number line. A greater temperature is a warmer one, so -7°C is 12 degrees warmer than -19°C .

What counts as right: Counts as right if it makes these points: (1) it is warmer where Ivy lives, or colder where Noah lives; (2) the greater number is the one nearer 0, so it is the higher temperature. Saying it is colder where Ivy lives, because 7 is less than 19, does not count.

6 A written explanation



A model answer: Ben owes less money than Ivy: Ben owes \$1 and Ivy owes \$15. -1 is greater than -15 because it is nearer 0: it sits to the right of -15 on a number line. A balance nearer \$0 is a smaller debt.

What counts as right: Counts as right if it makes these points: (1) Ben owes less than Ivy, or Ivy owes more than Ben; (2) the greater balance is the one nearer \$0, so it is the smaller debt. Saying Ben owes more does not count.

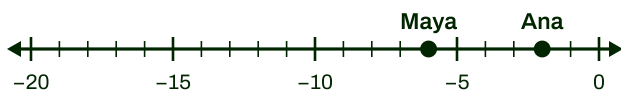
8 A written explanation



A model answer: It is warmer where Leo lives. -6 is greater than -9 because it is nearer 0: it sits to the right of -9 on a number line. A greater temperature is a warmer one, so -6°C is 3 degrees warmer than -9°C .

What counts as right: Counts as right if it makes these points: (1) it is warmer where Leo lives, or colder where Ben lives; (2) the greater number is the one nearer 0, so it is the higher temperature. Saying it is colder where Leo lives, because 6 is less than 9, does not count.

10 A written explanation



A model answer: Ana owes less money than Maya: Ana owes \$2 and Maya owes \$6. -2 is greater than -6 because it is nearer 0: it sits to the right of -6 on a number line. A balance nearer \$0 is a smaller debt.

What counts as right: Counts as right if it makes these points: (1) Ana owes less than Maya, or Maya owes more than Ana; (2) the greater balance is the one nearer \$0, so it is the smaller debt. Saying Ana owes more does not count.