

Interpret a comparison of two negative numbers

NAME	DATE	SCORE / 10
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1 Maya's bank balance is $-\$5$. Noah's bank balance is $-\$1$. So $-1 > -5$. What does this tell you?

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

2 Leo dives to -5 metres and Ana dives to -1 metres, below sea level. So $-1 > -5$. Explain what this tells you about the two dives.

3 Ben's bank balance is $-\$13$. Noah's bank balance is $-\$6$. So $-13 < -6$. What does this tell you?

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

4

Ana's bank balance is $-\$9$. Ivy's bank balance is $-\$5$. So $-5 > -9$. Explain what this tells you about the money Ana and Ivy owe.

5

At noon it is $-14\text{ }^{\circ}\text{C}$ where Ivy lives and $-1\text{ }^{\circ}\text{C}$ where Maya lives. So $-14 < -1$. What does this tell you?

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

6

Ivy's bank balance is $-\$14$. Ben's bank balance is $-\$11$. So $-11 > -14$. Explain what this tells you about the money Ivy and Ben owe.

7

Noah's bank balance is $-\$7$. Leo's bank balance is $-\$2$. So $-2 > -7$. What does this tell you?

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

8

Ben dives to -18 metres and Ivy dives to -13 metres, below sea level. So $-13 > -18$. Explain what this tells you about the two dives.

9

Maya's bank balance is $-\$5$. Ivy's bank balance is $-\$3$. So $-5 < -3$. What does this tell you?

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

10

At noon it is $-18\text{ }^{\circ}\text{C}$ where Leo lives and $-12\text{ }^{\circ}\text{C}$ where Ben lives. So $-12 > -18$. Explain what this tells you about the two places.

Interpret a comparison of two negative numbers

1 Noah owes less money than Maya

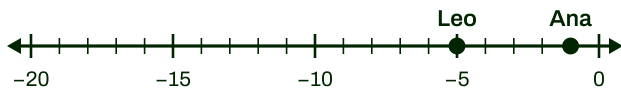
3 Ben owes more money than Noah

5 It is colder where Ivy lives than where Maya lives

7 Leo owes less money than Noah

9 Maya owes more money than Ivy

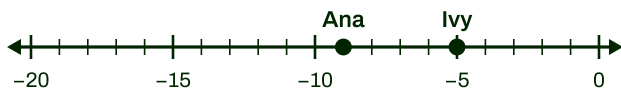
2 A written explanation



A model answer: Ana is not as deep as Leo: Ana is 1 metres below sea level and Leo is 5 metres below. -1 is greater than -5 because it is nearer 0: it sits to the right of -5 on a number line. A greater number here is nearer the surface.

What counts as right: Counts as right if it makes these points: (1) Ana is nearer the surface, or Leo dives deeper; (2) the greater number is the one nearer 0, which is sea level. Saying Ana dives deeper, by reading 5 and 1 without their signs, does not count.

4 A written explanation

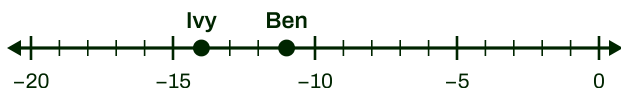


A model answer: Ivy owes less money than Ana: Ivy owes \$5 and Ana owes \$9. -5 is greater than -9 because it is nearer 0: it sits to the right of -9 on a number line. A balance nearer \$0 is a smaller debt.

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

6

A written explanation

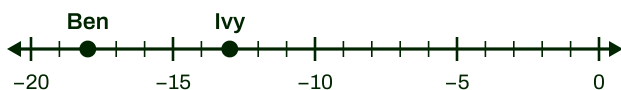


A model answer: Ben owes less money than Ivy: Ben owes \$11 and Ivy owes \$14. -11 is greater than -14 because it is nearer 0: it sits to the right of -14 on a number line. A balance nearer \$0 is a smaller debt.

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

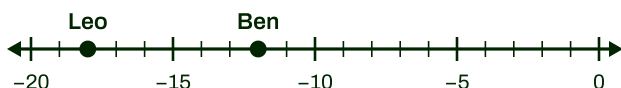


A model answer: Ivy is not as deep as Ben: Ivy is 13 metres below sea level and Ben is 18 metres below. -13 is greater than -18 because it is nearer 0: it sits to the right of -18 on a number line. A greater number here is nearer the surface.

What counts as right: Counts as right if it makes these points: (1) Ivy is nearer the surface, or Ben dives deeper; (2) the greater number is the one nearer 0, which is sea level. Saying Ivy dives deeper, by reading 18 and 13 without their signs, does not count.

10

A written explanation



A model answer: It is warmer where Ben lives. -12 is greater than -18 because it is nearer 0: it sits to the right of -18 on a number line. A greater temperature is a warmer one, so -12°C is 6 degrees warmer than -18°C .

What counts as right: Counts as right if it makes these points: (1) it is warmer where Ben lives, or colder where Leo lives; (2) the greater number is the one nearer 0, so it is the higher temperature. Saying it is colder where Ben lives, because 12 is less than 18, does not count.