## Lesson 14 Summary

We can apply the rules for arithmetic with rational numbers to solve problems.
In general:

$$
a-b=a+(-b)
$$

If $a-b=x$, then $x+b=a$. We can add $-b$ to both sides of this second equation to get that $x=a+(-b)$

Remember: the distance between two numbers is independent of the order, but the difference depends on the order.

And when multiplying or dividing:

- The sign of a positive number multiplied or divided by a negative number is always negative.
- The sign of a negative number multiplied or divided by a positive number is always negative.
- The sign of a negative number multiplied or divided by a negative number is always positive.

