

8th Period

Algebra 1 BB.1 Always / Sometimes / Never Name: _____

For each statement below - determine if it is always, sometimes, or never true.

Hint - make up examples for each problem to help you determine the answer.

1. Max gets a pay raise of 30%. Jim gets a pay raise of 25%. So Max gets the bigger pay raise.
2. When you cut a piece off a shape, you reduce its area and perimeter
3. If you add the same number to the top and bottom of a fraction, the fraction gets bigger in value.
4. In a sale, every price was reduced by 25%. After the sale, every price was increased by 25%. So the prices went back to where they started.
5. $(a+b)/2 \geq (ab)^{1/2}$
6. If you divide the top and bottom of a fraction by the same number, the fraction gets smaller in value.
7. It doesn't matter which way you multiply, you get the same answer, like $a \times b = b \times a$.
8. If you add a number to 12, you get a number greater than 12.
9. The square root of a number is less than the number.
10. It doesn't matter which way you divide, you get the same answer, like $a \div b = b \div a$.
11. If you divide 12 by a number, the answer will be less than 12.
12. The square of a number is greater than the number.
13. $p + 12 = s + 12$
14. $(n + 5)$ is less than 20
15. $2(x + 3) = 2x + 3$