Algebra 1 -- Module 1: Functions F - 1.2: Introduction to Function Notation

| Name | |
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Part I: Rico and Stassi

Rico and Stassi are comparing the functions that tell them their scores on their favorite online game. Rico's score, after playing for t days is determined to be R(t) = 32t, while Stassi's score after t days is determined to be S(t) = 76 + 20t.

1. Rico says his score after 3 days plus his score after 7 days, R(3) + R(7), is the same as his score after 10 days. Is this true?

2. Is the same thing true for Stassi? That is, is S(3) + S(7) = S(10)?

- 3. Is it always true that F(3) + F(7) = F(3+7) for each function *F*?
- 4. Rico also says that if you double his score after 4 days, 2*R(4), that is the same as his score after 8 days, R(8). Is this true?

5. Is the same thing true for Stassi? Check, is 2*S(4) = S(8)?

6. Is it always true that 2*F(4) = F(2*4) for each function *F*?