

# Lesson 9: Solutions

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**Problem 1.**

5 games.

**Problem 2.**

8

**Problem 3.**

3825

**Problem 4.**

172 coins.

**Problem 5.**

$7/2$

**Problem 6.**

Draw an equilateral triangle and draw another one, translated by 1.

**Problem 7.**

6

**Problem 8.**

(1,5)

**Problem 9.**

5

**Problem 10.**

$\pm 2001$

**Problem 11.**

70

**Problem 12.**

$222^2, 2^{2^{2^2}}, 22^{2^2}, 22^{2^2}, 2^{2^{2^2}}, 2^{2^{2^2}}, 2^{2^{2^2}}.$

**Problem 13.**

$-10/3$

**Problem 14.**

1,2,4

**Problem 15.**

398

**Problem 16.**

144

**Problem 17.**

6,210,001,000.

**Problem 18.**

1.9

**Problem 19.**

28

**Problem 20.**

6032