

Solve and check the following equations

1) $8 + 6a = -2a + 24$

7) $4a - 24 = -4(1 - 6a)$

2) $4r + 9 + r = -17 - 8r$

8) $-5(1 - 5x) + 5(-8x - 2) = -4x - 8x$

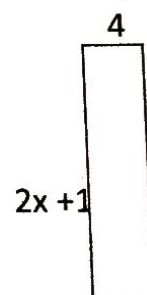
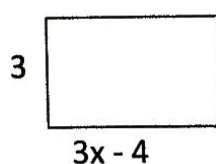
3) $7y - 4(3y - 5) = 80$

9) You are playing your favorite video game Star Chasers. You have 20 points and your friend has 50 points. You get a bonus and are earning 5 points per play. Your friend does not have the bonus and only earns 2 points per play. How many plays will need to happen for you to catch up to your friend?

4) $5n + 34 = -2(1 - 7n)$

10) The two figures have the same area. Find the area of the figures.

5) $p - 8 = -4 + 3p$



6) $4(2n - 3) = -3(n + 2) + 3$