Station 1 (1.1)

I can solve linear equations using addition and subtraction.

Solve the equation. Check your solution.

1) $r + (-8) = 10$

2) $-14 = p - 11$

3) $x + 5 = 8$

4) $w + 3 = -4$

I can solve linear equations using multiplication and division.

Solve the equation. Check your solution.

1) $\frac{t}{3} = 4$

2) $\frac{w}{6} = 8$

3) $5g = 20$

4) $-54 = 9s$

Station 2 (1.1)

I can use linear equations to solve real-life problems.

1) In the 2012 Olympics, Usain Bolt won the 200-meter dash with a time of 19.32 seconds. Write and solve an equation to find his average speed to the nearest hundredth of a meter per second.

2) You work at a local movie theater for $8.50 per hour. You earn $68. Write and solve an equation to find how many hours you worked.

3) You paid $68 for a new pair of shoes. You have a $15 off coupon. How much were the shoes originally?

Station 3 (1.2)

I can solve multi-step linear equations using inverse operations.

Solve the equation. Check your solution.

1) $3w + 7 = 19$

2) $\frac{h+6}{2} = 2$

3) $8y + 3y = 44$

4) $11 = 12 - q$

5) $4(z + 5) = 32$

6) $27 = 3c - 3(6 - 2c)$

7) $35 = 13n - 6n$

8) $\frac{t}{2} - 6 = 4$

Station 4 (1.2)

I can use multi-step linear equations to solve real-life problems.

1) The sum of the measures of a triangle is 180°. If the three angles of the triangle have the values of k, $2k$, and 45°, what are all three measures of the angles?

2) The sum of the measures of a quadrilateral is 360°. If the four angles of the quadrilateral have values of a, 2a, 3a, and 4a, what are all four measures of the angles?

3) Find the value for x, in the following set of data, such that the mean is 20: 9, 10, 21, 30, x.

Station 5 (1.3)

I can solve linear equations that have variables on both sides.

Solve the equation. Check your solution.

1) $5p - 9 = 2p + 12$

2) $5t + 16 = 6 - 5t$

3) $10(g + 5) = 2(g + 9)$

4) $10(2y + 2) - y = 2(8y - 8)$

I can identify special solutions of linear equations.

Solve the equation. Check your solution.

1) $3t + 4 = 12 + 3t$

2) $2(h + 1) = 5h - 7$

3) $3(4g + 6) = 2(6g + 9)$

4) $5t + 6t = 121$

Station 6 (1.3)

I can use linear equations to solve real-life problems.

1) You and your friend drive toward each other. The equation $60h = 180 - 30h$ represents the number h of hours until you and your friend meet. When will you meet?

2) Write and solve an equation to find the month when you would pay the same total for each internet service.

	Installation Fee	Price per Month
Company A	$75	$44.95
Company B	$15	$59.95