Linear equations
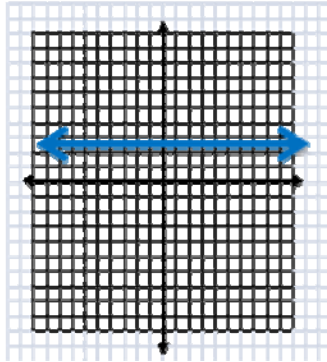

1. What kind of slope is this?

   a. positive
   b. negative
   c. zero
   d. undefined

Correct feedback: Yes, the answer is zero

Incorrect feedback: Sorry, the answer is zero. Please review the linear equations PowerPoint.

2. What is the y-intercept in the equation y= x-6 ?

   a. 6
   b. -6
   c. $\frac{1}{6}$
   d. $-\frac{1}{6}$

Correct feedback: Yes, the answer is-6.

Incorrect feedback: Sorry, the answer is-6. Please review the slope-intercept and point-slope PowerPoint.

3. What is the slope of a line that contains the points with the coordinates (2,5) and (2,6)?

   a. 4
   b. 3
   c. 2
   d. 1

Correct feedback: Yes, the answer is 1

Incorrect feedback: Sorry, the answer is 1. Please review the slope intercept and point-slope PowerPoint.

4. What is the y-intercepts for the following equation? 8x=5y

   a. $\frac{8}{5}$
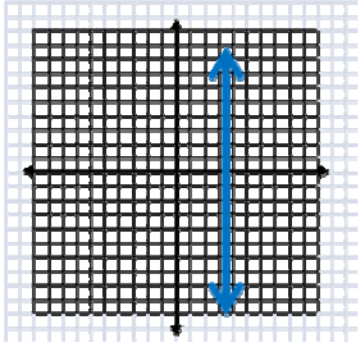   b. 0
   c. -1
   d. $\frac{5}{8}$

Correct feedback: Yes, the answer is 0

Incorrect feedback: Sorry, the answer is 0. Please review the slope intercept and point-slope PowerPoint.

5. What is the point-slope form of the equation for a line with a slope of 5 passing through (0,6)?

   a. $7x - 5y = 18$
   b. $y - 7 = 5x$
   c. $y - 6 = 5x$
   d. $y - 7 = 0x$

Correct feedback: Yes, the answer is $y - 6 = 5x$

Incorrect feedback: Sorry, the answer is $y - 6 = 5x$. Please review the slope intercept and point-slope PowerPoint.

6. What kind of slope is this?

    a. positive
    b. negative
    c. zero
    d. **undefined**

Correct feedback: That's right, the slope of this line is undefined

Incorrect feedback: Sorry, the slope of this line is undefined. Please review the linear equations PowerPoint.

7. What is the point-slope form of a line with slope $\frac{3}{4}x$ that passes through the point (-16, 5)?

    a. $y - 5 = \frac{3}{4}(x - 16)$
    b. $y - 5 = \frac{4}{3}(x + 16)$
    c. $y - 5 = \frac{3}{4}(x + 16)$
    d. $y - 5 = -\frac{4}{3}(x - 16)$

Correct feedback: The answer is $y - 5 = \frac{3}{4}(x + 16)$

Incorrect feedback. The answer is $y - 5 = \frac{3}{4}(x + 16)$. Please review the slope intercept and point-slope PowerPoint.

8. Below is a table of values. What is the rate of change?

x	-3	-2	-1	0
y	8	6	4	2

a. -1
b. -2
c. 1
d. 2

Correct feedback, Great! The answer is -2

Incorrect feedback: Sorry, the answer is -2. Please review the linear equations PowerPoint.

9. What is the y-intercept for the following equation? $y = x - 6$

a. -6
b. 6
c. $\frac{1}{6}$
d. 0.6

Correct feedback: That's correct, the answer is -6

Incorrect feedback. Sorry, the answer is -6. Please review the slope intercept and point-slope PowerPoint.

10. What is the equation in slope-intercept form for a line that passes through points (1,6) and (-1, -2)?

a. $y = 2x + 4$
b. $y = -3x + 6$
c. $y = 4x - 2$
d. $y = 4x + 2$

Correct feedback: That's right, the answer is $y = 4x + 2$

Incorrect feedback: Sorry, the answer is $y = 4x + 2$. Please review the slope intercept and point-slope PowerPoint.