1

Simplify without a calculator:

$$13-2\left[5-(6-9)^2\right]$$

a)-44 go to station 4

b) 21 go to station 7

c) -115 go to station 11

d) -15 go to station 10

7

Simplify without a calculator:

$$\frac{1}{2}\cdot\frac{8}{9}-3\left(\frac{2}{9}\right)$$

a) $\frac{1}{3}$ go to station 10

b) $-\frac{1}{3}$ go to station 6

c) $-\frac{2}{9}$ go to station 2

d) $-\frac{1}{9}$ go to station 11

2 Simplify the expression:

$$-2x\left(x^2-4\right)+5x^3$$

a) $3x^3+8x$ go to station 5

b) $11x^3$ go to station 9

c) $3x^3-8x$ go to station 10

d) $-7x^3+8x$ go to station 1

5

Solve the equation: $3(x-2)=2x$

a) $\mathbb{R}$ go to station 8

b) No solution go to station 11

c) $\{-6\}$ go to station 6

d) $\{6\}$ go to station 9

9 Solve the equation: $\frac{2x}{5} - \frac{1}{2} = \frac{3x}{10}$

a) $\{5\}$ go to station 4

b) $\{3\}$ go to station 5

c) $\{-5\}$ go to station 2

d) $\{-3\}$ go to station 3

4

If you have a party of 5 and the bill, including the 18% tip, is $92.30, how much was the bill before the tip?

a) $75.69 go to station 4

b) $92.12 go to station 8

c) $74.30 go to station 3

d) $78.22 go to station 10

10

Simplify the expression: $3\left(2xy^4\right)^5$

a) $30x^5y^{20}$ go to station 11

b) $96x^5y^{20}$ go to station 8

c) $96xy^{20}$ go to station 4

d) $7776x^5y^{20}$ go to station 3

8

Write the equation of the line that has a slope of -3 and goes through the point (0,-2).

a) $y = -3x + 2$ go to station 10

b) $y = \frac{1}{3}x - 2$ go to station 1

c) $y = -3x - 2$ go to station 11

d) $y = 3x + 2$ go to station 4

11

Write the equation of the line that goes through the points (1,3) and (5,-5).

a) $y = -2x + 5$ go to station 6

b) $y = 2x + 1$ go to station 3

c) $y = -2x - 5$ go to station 5

d) $y = 2x - 1$ go to station 1

6

A circular pizza has a circumference of 37.7 inches. What is the radius?

a) 6 inches — go to station 3

b) 10 inches — go to station 5

c) 12 inches — go to station 9

d) 6 square inches — go to station 1

3

Are these two lines parallel, perpendicular or neither?

$$2x-3y=5 \qquad 9x+6y=12$$

a) I don't know — go to station 3

b) Neither — go to station 4

c) Parallel — go to station 7

d) Perpendicular — go to station 1

Directions:

Print one copy of the slides (1-sided) and post around the room (or outside the room if you want). Print one handout per student.

Start each group on a different number so they don't get bunched up. (The problems go in a loop)

Students keep track of the order of the problems. If they finish without doing all of the problems they need to go back and find their mistake. Common mistakes will send them to the wrong number and bypass some problems.