

**1** Simplify without a calculator:

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

**2** Simplify the expression:

$$-2x(x^2 - 4) + 5x^3$$

**3** Are these two lines parallel, perpendicular or neither?

$$2x - 3y = 5 \quad \text{and} \quad 9x + 6y = 12$$

**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?

**5** Solve the equation:

$$3(x - 2) = 2x$$

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

**7**

Simplify without a calculator:

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

**8**

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

**9**

Solve the equation:

$$\frac{2x}{5} - \frac{1}{2} = \frac{3x}{10}$$

**10**

Simplify the expression:

$$3(2xy^4)^5$$

**11**

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

## Order of Stations

Write the order of the stations here.  
You must go through all stations in the correct order to escape Math 60!

