

## Math A2 Homework: Week of Sept 10 to Sept 12

### Monday, Sept 10

- Solve for the following variables:
  - Solve for d:  $xy - d = m$
  - Solve for r:  $q(p + r) = 1$
  - Solve for p:  $\frac{1}{3}p + 3 = 8$
  - Solve for r:  $C = 2\pi r$
- Solve and check:
  - $\frac{2}{7}x + 4 = 2$
  - $-4(x - 1) = -12$
  - $3x - 8 = 7x$
  - $5x - 2(x + 1) = 10$
- Mr. Cash bought d dollars worth of stock. During the first year, the value of the stock tripled. The next year, the value of the stock decreased by \$1,200.
  - Write an expression in terms of d to represent the value of the stock after two years.
  - If an initial investment is \$1,000, determine its value at the end of 2 years.

### Tuesday, Sept 11

- Seven less than five times a number equals thirteen. Find the number.
- The product of six and a number decreased by four results in two times the number. Find the number.
- Solve for y in the following equations:
  - $xy - p = z$
  - $3(y + 7) - 4 = 8$
  - $7y + 4(3 - y) = 18$
- Shoe sizes and foot length are related by the formula  $S = 3F - 24$ , where S represents the shoe size and F represents the length of the foot, in inches.
  - Solve the formula for F.
  - To the nearest tenth of an inch, how long is the foot of a person who wears a size 10.5 shoe?
- There are 846 freshmen at Massapequa High School. If the ratio of boys to girls is 4:5, how many girls are there?
- Simplify:  $-2(x^2 - 3x + 6)$

### Wednesday, Sept 12

- When 12 is subtracted from 3 times a number, the result is 24. Find the number.
- Six less than the quotient of a number and two is one. What is the number?
- Four times the quantity of a number subtracted from 10 results in 32. What is the number?
- When the difference of a number and six, is multiplied by three, the result is two more than the number. Find the number
- The length of a rectangle is 3 times its width. The perimeter of the rectangle is 72 centimeters. Find the dimensions of the rectangle.
- Solve for m:  $2(m - 1) = 2(3m - 5)$
- Expand:  $(x - 2)(x + 4)$

**\*\*Quiz next Tuesday Sept 18\*\***

**Study solving equations, translating verbal sentences, solving and graphing inequalities (We will be learning this on Monday the 17<sup>th</sup>) Review all homework questions!**