

# S.M.ART School

MAB2 HW due 03-25-2024

S1  $B^2 / (A * C) - A^2 / (B * C)$

S2  $3 * M / N - (N - 1) / M$

S3  $x / (x - y) + y / (x + y)$

S4  $A / (B - A) - B / (B - A)$

## Solve Equations

E1  $3 * x / 8 - (3 - x) / 4 = 1/6$

$$E2 \quad 13*x/7 - 5*x/3 = -4/21$$

$$E3 \quad 13*(x + 7)/7 - 5*(x + 7)/3 = -4/21$$

$$E4 \quad 13*(3*x - 2)/7 - 5*(3*x - 2)/3 = -4/21$$

$$E5 \quad 2.56/x = 0.64/(5*x)$$

$$E6 \quad 2.56/(2*x - 1) = 0.64/(1 - 2*x)$$

- Q1 How many yards of carpet that is 64'' wide is needed to cover a floor that is 512' by 50'? (Use the process we applied at the last class.)
- W1 John earns \$140 more than Ken. If their total of their monthly salaries is \$2760, what amount does each earn?
- W2 The length of rectangle is 3 cm more than twice its width. What is the length of the rectangle if perimeter is 48 cm?
- W3 It took Mark 4 hours to drive from B to A. The speed was 60 miles per hour. How fast (what speed) does Mark have to drive to get from A to B in 6 hours?
- W4 A business is owned by 3 men and 1 woman, each of whom has an equal share. If one of the men has decided to sell  $\frac{1}{2}$  of his share to the woman, and another of the men keeps  $\frac{2}{3}$  of his share and sells the rest to the woman, what fraction of the business will the woman own?

W5 Griffin made up a number. Let's call it  $x$ . After he added 11 to it; multiplied the result by 3, and then subtracted the original number ( $x$ ) multiplied by 4, he came up with the number 38. How much is  $x$ ?

R1 Explain why  $\sqrt{-169}$  is not defined .

### **Extract a factor out of radical ( $\sqrt{\phantom{x}}$ )**

S1 Example  $\sqrt{32} = \sqrt{16 * 2} = 4 * \sqrt{2}$

S2  $\sqrt{60}$

S3  $\sqrt{1000}$

S4  $\sqrt{36}$

S5  $\sqrt{.36}$