

Ma 9 – Flashback #3

1. Evaluate WITHOUT a calculator $\sqrt{\frac{16}{25}}$
2. Simplify: $-6 + 2x + 4x^2 - (3x - 5) + 5x(x + 2)$
3. Expand and simplify: $(x + 2)(2x - 3)$
4. WITHOUT a calculator, calculate $-2 \div \frac{3}{5}$ and then model the answer on a number line.
5. Simplify: $\frac{10^9 \cdot 10}{(10^2)^3}$
6. Evaluate without a calculator: $3.5 + \sqrt{16} \left(\frac{5}{8}\right)$
7. Calculate the surface area of a 4 cm cube.
8. Solve and check: $\frac{3x-4}{2} = 9$
9. What is the linear equation for the pattern: 3, 7, 11, 15, ... ? (Hint: put into a T-chart)
10. If the vertices of a triangle are found at (3, 1), (-2,4) and (0,10), where would they move to if the triangle is enlarged by 5?