## Warm up AFM:

Monday: A combination lock will open when the choice of three numbers, 1 - 50 inclusive, is selected correctly. How many combinations are possible?

Tuesday: Find the $30^{\text {th }}$ term in the sequence: $-511,-518,-525, \ldots$

Wednesday: What are the transformations from the parent function?
$f(x)=\left|-\frac{2}{3} x+10\right|+1$

Thursday: Evaluate $f(4)+f(-7)$ using the piecewise function:
$f(x)=\left\{\begin{array}{c}3 x^{2}-5, \text { if } x<2 \\ 6-2 x, \text { if } x \geq 2\end{array}\right.$

Friday: The length of time it takes to groom a dog at Shaggy's Pet Shoppe is normally distributed with a mean of 45 minutes and standard deviation of $\mathbf{1 0}$ minutes. In a sample of $\mathbf{4 0 0}$ dogs, how many do we expect to take less than $\mathbf{2 5}$ minutes to groom?

