Activity 4-1 (30 Aug 2018)

1. (R-3.3-ex-37) Show that using only 3-baht and 5-baht coins, one can form a set of coins worth n baht for any integer $n > 7$.

2. (R-3.3-ex-6) Find the formula for

$$\frac{1}{1\cdot 2}+\frac{1}{2\cdot 3}+\cdots+\frac{1}{n\cdot(n+1)} \quad .$$

Try a few values of n, guess the formula, and prove it by induction.