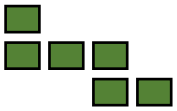
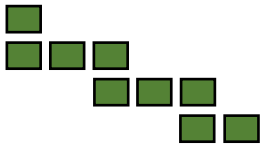
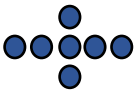
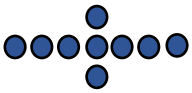
6-7 MATH TALKS

PICTURE TALK 3

Emphasize that there are many different ways to see a pattern grow and to represent it in equivalent symbolic expressions. Show students one set per day.

	Step 1	Step 2	Step 3
Set A			
Set B			
Set C			

How is the pattern growing? Explain using words or with an equation. Use the sentence frame, "Start with ___ and add ___ each time" to help as needed.

What would the next picture look like in the pattern?

How many ___ would be in the 5th step? The 12th step?

Set A: Start with 3 rectangles and add 3 each time. Step 5: 15; Step 12: 36
Set B: Start with 5 circles and add 2 each time. Step 5: 13; Step 12: 27
Set C: Start with 1 star and add 4 each time. Step 5: 17; Step 12: 45

NUMBER TALK 8

	Option A	Option B
Set I Is it better to…	share $50 among 8 friends $6.25 per person	share $96 among 16 friends $6 per person
Set II Is it faster to…	read a 360-page book over 5 days (same amount per day) 72 pages/day	read a 360-page book over 3 days (same amount per day) 120 pages/day
Set III Is it more to…	run 60 miles over 15 days (same amount per day) 4 miles/day	run 40 miles over 12 days (same amount per day) 3.33… miles/day

Unit rates are given, but students may use any convincing rate reasoning.

Show students one set per day.

Which option you would choose? Students should be prepared to justify choices with mathematical reasoning. (Set I is intended to maximize ones' amount of money and Set II is intended to maximize ones' amount of running, but any reasonable justifications should be accepted).