

## Proof For Week 12

Due on Thursday, November 29<sup>th</sup>

Here is a conversation between two good friends, Al and Bob.

**Al:** “I have three kids. The product of their ages is 36” .

**Bob:** “What is the sum of their ages?”

**Al:** “The sum of their ages is the same as my house number” .

**Bob:** “That’s still not enough information to figure out how old they are!”

**Al:** “I’ll give you one more clue. My youngest child absolutely loves chocolate ice cream.”

**Bob:** “Now I know how old your three kids are.”

How old are Al’s kids? Explain how you got your answer.