The 8 Common Core Mathematical Practice Standards

What will they sound like in the classroom?

MP#1: Make sense of problems and persevere in solving them.

What exactly is this problem asking me to do?
How can I get that information?
How long will it take to...

I think it's slope
Find the height

MP#2: Reason abstractly and quantitatively.

π
54/7
I know I need to multiply, but what do these numbers represent?

7.2139
10³

MP#3: Construct viable arguments and critique the reasoning of others.

Can that really be right?
I think that step is wrong because...
A plane moves faster than 50 mph!
How do I defend my answer?

MP#4: Model with mathematics.

Can I use math to represent this situation?
f(x) =

MP#5: Use appropriate tools strategically.

Do I need my calculator for this?
Find the maximum
5 x 1 = ?
y = 3x - 15

MP#6: Attend to precision.

Do I need to round my answer? Did I remember to label my answer?

7.33 ft²

MP#7: Look for and make use of structure.

Can I break this problem down into something simpler?

37 + 56 = 80 + 13 = 93

7 x 6 =
(7 x 3) + (7 x 3)

23 x 8 = 160 + 24 = 184

MP#8: Look for and express regularity in repeated reasoning.

Is there a pattern in this problem that I can use?

A, C, F, J, ...

2, 4, 6, 8, ...

1, 3, 5, 9, ...

Created by Sarah Champagne, Math Teacher, Bristol Eastern High School, 2011