CHECK ANSWERS: ch.3 #52-54, 61-66

#52-54,61

-7 3.91 5 6 8.75 $-\frac{1}{6}$ → lose 1/6 of a point on average for each toss

No, not a fair game.
Expected value of 0 means the game will break even overall
Fair game means that expected value is zero.

#62-66

-12 -6 -5 -2 2 3 38 49 $\frac{4}{3}$ $\frac{25}{12}$ *or* $2\frac{1}{12}$ translate/rotate/dilate

$y = 7.68(2.5)^x$ → Show work!!! Plug in each (x, y) point separately into $y = ab^x$, then solve both equations for a. Once the two equations are in a= form, they can be set equal to each other so you can solve for b.

$\frac{5}{11}$ 5 6 10 11 33 No, side ratios are not equal → $\frac{6}{3} = \frac{10}{5} \neq \frac{7}{4}$