Addendum to the original contest

5C – prime omitted – question adjusted after the contest so answer as intended (1 : 8 : 16)

$area(\Delta AFD) : \underline{area(DEC'B)} : area(DECB)$

Answer to original question: 1 : 12 : 16

Round 6 – 6A changed after contest and note added to 6B

Negative exponents should be avoided in algebra contest at this time of year.

6A – question actually asked $\left( \sqrt{8} - \dfrac{1}{\sqrt{2} - \dfrac{1}{\sqrt{2}}} \right)^{-2}$ Ans: 1/2

6B - added to the original question:

Note: For any real number $x \neq 0$, $x^{-1}$ is equivalent to $\dfrac{1}{x}$.