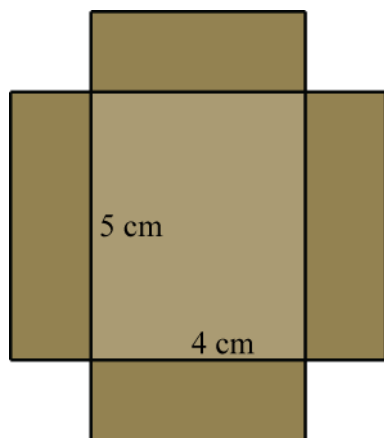


Grade 7

EXTRA CHALLENGES - SET III

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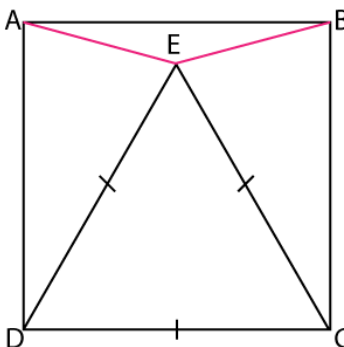
1. Carmelo Anthony, a basketball player for the Nuggets was shooting 42% after his first 50 shots. If he doesn't miss another shot, how many baskets must he make so that he has a 50% shooting percentage?



2. A rectangular sheet of cardboard has 4 small equal squares removed from its corners. It is then folded to make a 5 cm by 4 cm box with volume 60 cm^3 . What was the original area of the cardboard?
3. If $a, b, c, d,$ and e are positive integers such that $a + b + c + d + e = 20$ and $a + b + c = 14$ and $c + d + e = 16$, what is the value of c ?
4. What is the measure of the obtuse angle formed by the hour and minute hands of a clock at 10:10?



5. Inside square $ABCD$ is equilateral triangle ECD . Determine the measure of angle AEB .



Don't forget to try these past contests! Go to www.wiredmath.ca for the link.



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Past Gauss Contests

http://www.cemc.uwaterloo.ca/contests/past_contests.html#gauss