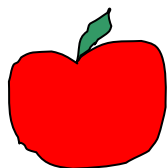


Grade 8

EXTRA CHALLENGES - SET V

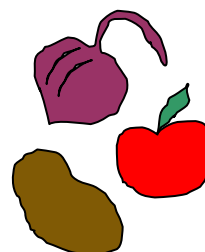
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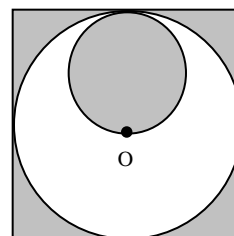
1. Apples at the market cost forty-five cents each. If Matt has eight dollars, what is the maximum number of apples he can buy? How much money does Matt have left over?

Did You Know?

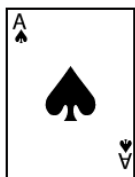
An apple, onion and potato all have the same taste. The differences in flavour are caused by their smell. To prove this, pinch your nose and take a bite from each. All will taste sweet.



2. In the diagram, a circle is inscribed inside a square. The area of the big circle is $64\pi \text{ cm}^2$. The centre of the big circle is O. There is a smaller circle inside the big circle. What is the exact area of the shaded region?



3. A farmer is building a fence for his rectangular field. The field is 50 metres wide and 70 metres long. The fence posts are to be placed in each corner and then every ten metres apart. How many posts will the farmer need to completely fence the field?



4. Ben and Albert played a card game where the winner gets three points and the loser loses one point. Albert won exactly four games and Ben had a final score of eight points. How many games did they play?

5. A square piece of paper is folded in half vertically, and then folded in half horizontally. The resulting figure has a perimeter of 12 cm. Find the area of the original piece of the paper.

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



TRY THIS!

Past Gauss Contests

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