Math 6
Assignment 11
January 28, 2018

Name and section: _____

1. Calculation. Use fraction operations. Make sure to simplify your final answers, then convert them into decimals and percentages..

   (a) $\frac{1}{2}+\frac{1}{3}$

   (b) $\frac{2}{5}+\frac{3}{5}$

   (c) $\frac{5}{6}-\frac{1}{2}$

   (d) $\frac{1}{2}+\frac{1}{12}$

   (e) $\frac{12}{7}-\frac{1}{2}$

   (f) $\frac{7}{4}\times\frac{1}{14}$

2. Calculation. Repeat the questions in (1), but this time convert each fraction into decimal before carrying out the operation. Compare it to the your answers in 1. Which way you find to be easier? Draw a star beside the easier method.

3. Solve the following equations for x. Report your answers in decimals.

   (a) $x - 0.5 = 1$

   (b) $3x + 1 = 0$

   (c) $0.5x + 3 = 0$

   (d) $1.5x - 2 = 1$

   (e) $6x + 1.7 = 3.5$

   (f) $2.5x = 5$

   (g) $2x = 5$

   (h) $9x = 3$

4. You shape a string with length 4π cm into a circle without any overlap. What is the radius of the circle? What is its diameter?

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5. Vivian bought an 8-inch (i.e.$d = 8$in) blueberry pie, Cody bought a 16-inch blueberry pie. How much more pie does Cody have than Vivian?
   (Hint: the amont of a pie is proportional to its area)

6. Calvin and Chase ate Vivian's blueberry pie from the previous question. Calvin had twice the amount as Chase. How much pie (in area, in square inches) did each of them have?
   (Hint: break down the question into 2 parts. First, find out how much pie, in fraction, each of them had. Then, calculate the area of the whole pie. You will not need the diameter until the second part.)