Evaluate the following expressions

1. $4 - (-2) =$

2. $-\frac{6}{7} + \frac{1}{3} =$

3. $-\frac{3}{2}\left(-\frac{2}{3}\right) =$

4. $8(-9) =$

Determine the one value that makes the following expressions equivalent. (show your work)

5) $3x - 7 = 23$

6) $\frac{x+4}{5} = 12$

7) When solving an equation keeping things equivalent is important explain what you would do to keep the following expressions equivalent as you solve for the unknown.

$$\frac{x}{3} + 2 = 5$$

8) Explain how you would sample the population of all voters in Pleasant Grove. Make sure that the sample is representative of the population.

9) If you surveyed every 3rd customer at a Taco Amigo at lunch over 3 days, and asked each customer if they prefer Taco Amigo over Subway. Would this be a random and representative sample?

10) If a circle has a circumference of 56.52 meters what is the diameter of the circle?