Work through the following problems and have your tutor check your solutions and record your name before the end of your Week 2 tutorial. You are encouraged to discuss these questions and your solutions with your peers and to ask your tutor for assistance. Working through ten sets of tutorial problems is compulsory and each of the ten problem sets will contribute 0.5% towards your final grade. Note that you earn the 0.5% for your effort in solving these problems during the tutorial rather than for answering all the problems correctly.

Once you have finished these problems, you can use the remainder of your tutorial time to work on other aspects of the course. Solutions to the tutorial problems will be distributed next week.

1. Find $2 \times 5 - 2$ and $2 \times (5 - 2)$
2. Find $\dfrac{-4}{6} + \dfrac{5}{17}$
3. Find $\dfrac{12}{11} \div \dfrac{9}{14}$
4. Find $\left(\dfrac{-3}{-10} - \dfrac{-39}{40}\right) \times \dfrac{52}{-13} + \dfrac{-12}{-2}$
5. Find $\dfrac{1}{14} - \dfrac{-15}{7}$
6. Find $\dfrac{12}{5} \times \dfrac{-6}{15}$
7. Find $-\,|39.9|$
8. Let $z = 6$. Find x, if $2x - 3 = z$
9. Find y, if $|-6y - 6| = 0$
10. Simplify $\dfrac{-10x^{-5}x^{-2}}{x^4x^{-2}}$
11. Expand $2y\,(1 - 4y)$
12. Expand $(4z + 5)\,(1 - 6z)$
13. Find x, if $\dfrac{2x}{-3} = 0$
14. Find z, if $6 + \dfrac{-5}{5z} = 0$
15. Find z, if $z = \dfrac{-9}{18} - \dfrac{-3}{-9}$
16. Write $-2.8 \leq x < 0.2$ in interval form and mark it on a real line.
17. Write the interval $[-10, 1]$ using inequality signs and mark it on a real line.
18. Find x, if $-1 = -5x + 2$
19. Find y, if $5y - 2 = 6$
20. Solve $10x + 3 \geq 6x + 3$, then write your answer in interval format and mark it on a real line.