| Task 1 | Task 2 | DC |
| :--- | :--- | :--- |
| Put solutions to problems from the <br> previous Problem Set on the board | Discuss all problems and come to a consensus. Record solutions in your <br> notebooks and present solutions. | DC |

## Problem Set 21

| 21.1 | Solve the following equations: <br> a. i.) $-10 n+3(8+8 n)=-6(n-4)$ <br> ii.) $-11+10(p+10)=4-5(2 p+11)$ <br> b. i.) $\frac{7}{4}(b-1)=\frac{7}{8}$ <br> ii.) $\frac{2}{3}(3 x+1)=5 \frac{1}{3}-\frac{1}{3} x$ |
| :---: | :---: |
| 21.2 | Elek has a bag of marbles. There are 6 red and 4 white marbles. Elek takes out a marble at random and records its colour. Without replacement, he takes out another marble, at random. <br> a. Complete a probability tree diagram. <br> b. Find the probability that the two marbles are the same colour. <br> c. Find the probability that Elek does not take a red marble. |
| 21.3 | Find the area and perimeter of each of the compound shapes shown below <br> 4) <br> a. <br> b. |
| 21.4 | Write equations for the following two lines and then graph both lines on your TI-84 to find the point at which they intersect. $\mathrm{L}_{1}$ is the line that goes through $(-6,-4)$ and is parallel to the line $y=2 x+5$ and then $\mathrm{L}_{2}$ is the line that goes through $(-2,4)$ and is perpendicular to the line $y=3 x-1$ |
| 21.5 | Nadia has saved $\$ 160$ and her sister Lucia has saved $\$ 340$. They have just started part-time jobs. Each day that they work, Nadia adds $\$ 5$ to her savings while Lucia adds $\$ 2$. <br> a. Write 2 linear equations that model the amount of money each girl has as her savings as related to the number of days they work. <br> b. When will the girls have the same amount of money and what will that amount be? |




