Let's Recycle

Andy collects plastic bottles, soda cans, and paper bags for recycling. The recycling machine will give change back (in cents). The rates appear below.

6p = cents	**4s = cents**	**3b = cents**

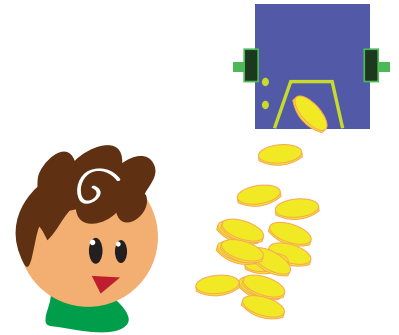Letter p represents the number of plastic bottles he puts in.
Letter s represents the number of soda cans he puts in.
Letter b represents the number of paper bags he puts in.

On Monday, Andy put 10 plastic bottles, 4 soda cans, and 5 paper bags into the machine.
Find the total amount of change Andy will get if he puts these items in the machine.

- Change earned from the plastic bottles = 6p, where p = 10
    6(10) = 60 cents, or $0.60

- Change earned from soda cans = 4s, where s = 4
    4(4) = 16 cents, or $0.16

- Change earned from the paper bags = 3b, where b = 5
    3(5) = 15 cents, or $0.15

Andy gets 60 + 16 + 15 = 91 cents ($0.91) from the recycling machine.

Directions: Answer these questions using the formulas above.

1. On Wednesday, Andy put in 8 plastic bottles, 12 soda cans, and 7 paper bags into the machine. How much money did he earn on Wednesday?

2. On Friday, Andy put in 25 plastic bottles, 18 soda cans, and 9 paper bags into the machine. How much money did he earn on Friday?

3. How much total money did Andy get on Wednesday and Friday?