Extra Practice- Linear Relations:1 Step and 2 Step Equations

1. Solve for the missing variable.
	1. *k* +18 = 21
	2. W-5 = 26
	3. 4g = 48
	4. $\frac{p}{3}$= 10
2. Solve for the missing variable.
	1. 24 = 14 - 5x
	2. 5x + 10 = 40
	3. -37 = 8f - 139
	4. -17 = 3k + 4
3. Solve for the missing variable
	1. $\frac{x}{4}$-5 = -7
	2. $\frac{-p}{3}$+1 = -4
	3. 4 =$\frac{-f}{12}$- 6
	4. 5 = 2 - $\frac{n}{4}$
4. For the month of January, the average afternoon temperature in Calgary is $\frac{1}{4}$the average morning temperature. The average afternoon temperature is -4°C. What is the average morning temperature?
5. Kim works at an art gallery. An art dealer offers her a sculpture for $36 000. The dealer says the current value of the sculpture is twice its value the previous year. What was the value of the sculpture the year before?
6. If Jennifer doubled the money that she has in her account now and then took out $50, she would have enough left in her account to buy a new bike that costs $299. Write and solve an equation to determine how much money Jennifer has now.
7. A classroom’s length is 3 m less than two times its width. The classroom has a length of 9 m. Write and solve an equation to determine the width of the classroom.
8. The cost of a concert ticket for a student is $2 less than one half of the cost for an adult. The cost of the student ticket is $5. Let a represent the cost of an adult ticket. Write and solve an equation to determine the cost of an adult ticket.
9. In Canada, the percent of secondary school students who say their favourite subject is science is 1% less than $\frac{1}{2}$of the number of students who choose math. The percent of students who prefer science is 6%. Write and solve an equation to determine what percent of students prefer math.
10. During the 2006–2007 NHL season, Kristian Huselius of the Calgary Flames had a total of 41 more than $\frac{1}{2}$ the number of shots on goal as Jarome Iginla. If Huselius had 173 shots on goal, how many did Iginla have?