Name: _____

Problem Solving Using Equations

Write an expression for each of the following

1) Nada is now n years old. Represent her age.

   a. 5 years ago   b. in 11 years   c. x years ago

2) Jihad is now x years old. Represent his age.

   a. 7 years ago   b. in 12 years   c. in d years

3) Tamer is now (n+7) years old. Represent his age.

   a. in 7 years   b. 4 years ago   c. n years ago

   d. in (n+2) years   e. $(n-4)$ years ago   f. in 5n years

4) Samia is now (2n+8) years old. Represent her age.

   a. 5 years ago   b. in 6 years   c. n years ago

   d. in $(n-3)$ years   e. $(n+1)$ years ago   f. in 3n years

5) 25) Hamda is m years old. Represent Khalifa's age if he is:

   a. twice as old as Hamda   b. one-third as old as Hamda

   c. 5 years younger than Hamda   d. 8 years older than Hamda

6) 26) Karim is 14 years younger than Nader. The sum of their ages is 74. What are their ages?

7) 27) Fatma is five times as old as her sister. The sum of their ages is 12. How old is Fatma's sister?

8) Rania is 25 years younger then her father. The sum of their ages is 75. How old is Rania?

9) Lisa is 6 years older than her brother Hadi. Their father's age is twice the sum of their ages. How old is Lisa if her father is 32?

10) Twelve years ago, Tala was 7 years old. In 8 years, Tala will be three times as old as Nina. Nina is two years younger than Dina. How old is Nina now?

11) Ruwaida is 5 years older than Tarek. Six years ago, Tarek was twice as old as Mahra. How old is Tarek now?

12) Eight years ago, the sum of Walid's age and Akram's was 26. Akram is 4 years older then Walid. How old is Walid now?

13) Jamal is 7 years younger than his brother, and 30 years younger than his father. How old is Jamal?

14) Hamad is now 28 years old and Hisham is 8 years old. In how many years will Hamad be twice as old as Hisham?

15) Dana is three years younger than Nadia. In 7 years, the sum of their ages will be 63. What are their ages now?