Math 084 W2010 Worksheet 2.5 v01a
Dressler

Name_____

Translate from English to an algebraic expression or equation, whichever is appropriate. Let the variable x represent the number.

1) $\frac{1}{6}$ of a number, decreased by 7, is 37.

2) $\frac{1}{3}$ of a number, decreased by 8, is 34.

3) $\frac{1}{4}$ of a number, decreased by 8, is 25.

4) $\frac{1}{6}$ of a number, decreased by 4, is 32.

5) $\frac{1}{6}$ times a number increased by 4 is 3.

6) $\frac{1}{5}$ of a number increased by 4 is 4.

7) Seven subtracted from the product of 6 and 5 less than a number

8) Eight subtracted from the product of 8 and 4 less than a number

9) $\frac{1}{5}$ of a number, decreased by 5, is 21.

10) Eight subtracted from the product of 7 and 4 less than a number

11) $\frac{1}{6}$ of a number decreased by 7, is 37.

12) $\frac{1}{6}$ of a number increased by 2 is 1.

13) $\frac{1}{4}$ of a number, decreased by 5, is 26.

14) $\frac{1}{7}$ of a number decreased by 2 is 4.

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Let x represent the number. Write the English phrase as an algebraic expression.

15) The product of 16 and a number, added to 7.

16) The product of 7 and a number, added to 4.

17) The product of 13 and a number, added to 17.

18) Three times a number, decreased by 58.

19) The quotient of 74 and the product of a number and –7.

20) The quotient of 71 and the product of a number and –6.

21) The product of –23 and the sum of a number and 36.

22) Five times the sum of a number and –18.

23) The quotient of 32 times a number and –3.

24) Two times a number decreased by one–eighth of the same number.

25) Nine times a number, decreased by 56.

26) The quotient of 32 and the product of a number and –5.

27) The quotient of 69 and the product of a number and –5.

28) The product of –26 and the sum of a number and 16.

29) Three times the sum of a number and –43.

30) Seven times the sum of a number and –24.

31) The quotient of 31 times a number and –5.

32) Eight times a number decreased by three–fourths of the same number.

1) $\frac{1}{6}x - 7 = 37$

2) $\frac{1}{3}x - 8 = 34$

3) $\frac{1}{4}x - 8 = 25$

4) $\frac{1}{6}x - 4 = 32$

5) $\frac{1}{6}(x + 4) = 3$

6) $\frac{1}{5}(x + 4) = 4$

7) $6(x - 5) - 7$
8) $8(x - 4) - 8$

9) $\frac{1}{5}x - 5 = 21$

10) $7(x - 4) - 8$

11) $\frac{1}{6}x - 7 = 37$

12) $\frac{1}{6}(x + 2) = 1$

13) $\frac{1}{4}x - 5 = 26$

14) $\frac{1}{7}(x - 2) = 4$

15) $7 + 16x$
16) $4 + 7x$
17) $17 + 13x$
18) $3x - 58$

19) $\frac{74}{-7x}$

20) $\frac{71}{-6x}$

21) $-23(x + 36)$
22) $5(x + (-18))$

23) $\frac{32x}{-3}$

24) $2x - \frac{x}{8}$

25) $9x - 56$

26) $\frac{32}{-5x}$

27) $\frac{69}{-5x}$

28) $-26(x + 16)$
29) $3(x + (-43))$

30) $7(x + (-24))$

31) $\dfrac{31x}{-5}$

32) $8x - \dfrac{3x}{4}$