

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 5, is 24.

2) $\frac{1}{5}$ of a number, decreased by 8, is 22.

3) $\frac{1}{6}$ of a number, decreased by 7, is 32.

4) $\frac{1}{4}$ of a number, decreased by 5, is 23.

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

6) $\frac{1}{5}$ of a number increased by 4 is 2.

7) Seven subtracted from the product of 5 and 3 less than a number

8) Seven subtracted from the product of 5 and 4 less than a number

9) $\frac{1}{3}$ of a number, decreased by 4, is 33.

10) Eight subtracted from the product of 8 and 2 less than a number

11) $\frac{1}{6}$ of a number decreased by 7, is 39.

12) $\frac{1}{4}$ of a number increased by 4 is 3.

13) $\frac{1}{5}$ of a number, decreased by 5, is 29.

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

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

15) The product of 14 and a number, added to 17.

16) The product of 2 and a number, added to 15.

17) The product of 3 and a number, added to 12.

18) Three times a number, decreased by 61.

19) The quotient of 71 and the product of a number and -5 .

20) The quotient of 34 and the product of a number and -4 .

21) The product of -16 and the sum of a number and 28.

22) Twice the sum of a number and -50 .

23) The quotient of 17 times a number and -9 .

24) Three times a number decreased by one-third of the same number.

25) Twice a number, decreased by 19.

26) The quotient of 70 and the product of a number and -5 .

27) The quotient of 55 and the product of a number and -9 .

28) The product of -9 and the sum of a number and 17.

29) Eight times the sum of a number and -49 .

30) Eight times the sum of a number and -43 .

31) The quotient of 15 times a number and -8 .

32) Six times a number decreased by three-fourths of the same number.

Answer Key

Testname: 02.5V01B

1) $\frac{1}{6}x - 5 = 24$

2) $\frac{1}{5}x - 8 = 22$

3) $\frac{1}{6}x - 7 = 32$

4) $\frac{1}{4}x - 5 = 23$

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

6) $\frac{1}{5}(x + 4) = 2$

7) $5(x - 3) - 7$

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

9) $\frac{1}{3}x - 4 = 33$

10) $8(x - 2) - 8$

11) $\frac{1}{6}x - 7 = 39$

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

13) $\frac{1}{5}x - 5 = 29$

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

15) $17 + 14x$

16) $15 + 2x$

17) $12 + 3x$

18) $3x - 61$

19) $\frac{71}{-5x}$

20) $\frac{34}{-4x}$

21) $-16(x + 28)$

22) $2(x + (-50))$

23) $\frac{17x}{-9}$

24) $3x - \frac{x}{3}$

25) $2x - 19$

26) $\frac{70}{-5x}$

27) $\frac{55}{-9x}$

28) $-9(x + 17)$

29) $8(x + (-49))$

Answer Key

Testname: 02.5V01B

30) $8(x + (-43))$

31) $\frac{15x}{-8}$

32) $6x - \frac{3x}{4}$