Translate to an Algebraic expression or equation.

1. Three times the sum of a number and seven is subtracted from twice the number

2. Half of the sum of two and twice a number is divided by two thirds of the number

3. Eight less than $y$ is half of the sum of $y$ plus three

4. Five times the sum of a number and two is equal to one subtracted from the number.

5. What number less than nine is three hundred?

6. The sum of four even consecutive integers

7. Twice the sum of two numbers is five less than their product.

8. Tower A is four times as tall as Tower B.

9. The product of three consecutive integers equals the sum of three consecutive integers.

10. Three subtracted from what number is the product of the number and two?

11. Lisa’s age is seven more than Karen’s age.

12. Five subtracted from three times a number is the same as five less than three times the number.
Solutions:

1. $2x - 3 \cdot x + 7$
2. $\frac{1}{2} \cdot 2 + 2x \div \frac{2}{3} x$
3. $y - 8 = \frac{1}{2} \cdot y + 3$
4. $5 \cdot x + 2 = x - 1$
5. $9 - x = 300$
6. $x + x + 2 + x + 4 + x + 6$
7. $2 \cdot x + y = xy - 5$
8. $A = 4B$
9. $x \cdot x + 1 \cdot x + 2 = x + x + 1 + x + 2$
10. $x - 3 = 2x$
11. $L = K + 7$
12. $3x - 5 = 3x - 5$