## Reducer:

**1.** $2a + 3a + 1a - 3a =$_____

**2.** $11a - 13a - 2a + 1a =$_____

**3.** $2a + 4b + 8a + 5 - 2b =$_____

**4.** $-2a - 2b - 3a + 4 + 2b =$_____

**5.** $5 + 3a + 3b - 4a - 3b - 5 =$_____

**6.** $4b + 2 \cdot 3a =$_____

**7.** $3 - 2 \cdot 2b - 3a + 5b - 3 =$_____

**8.** $5a \cdot 1 + 3 \cdot 3b - a =$_____

**9.** $3\,(2a - 2b) =$_____

**10.** $2\,(a + b) - 2b =$_____

**11.** $15 - 7\,(2 + a) =$_____

**12.** $-3\,(2a - 2b - 2) + 2 \cdot 2b + a =$ _____

**13.** $4 - (4 + 2a) + 2\,(5a + 5b) =$_____

**14.** $7a - 3 \cdot 3a + 3 \cdot b + 4\,(-2a - 3a - 2b + 2) =$_____

## Sand eller falsk:

**1.** $2a + 3$ **=** $5a$ _____

**2.** $2a + 2a + 3 - a$ **=** $5a + 3$ _____

**3.** $3\,(2a + 1)$ **=** $6a + 3$ _____

**4.** $5 \cdot 2\,(a + 2b)$ **=** $10a + 20b$ _____

**5.** $7\,(2 + 2a - 2b) + 3a + 10b$ **=** $-9 + 16a + 8b - 12b + 25 + 2a - a$ _____

**6.** $2\,(-3a - 3b - 2) - (5 - 4b)$ **=** $-5b - 3a - 5b - 3a - 9$ _____

**7.** $-6\,(-a - b - 3)$ **=** $3\,(a + b + a - 6) + 3b$ _____

## Reducer:

**15.** 2a + 3a + 1a - 3a = **3a**

**16.** 11a - 13a - 2a +1a = **-3a**

**17.** 2a + 4b + 8a + 5 - 2b = **10a + 2b + 5**

**18.** -2a - 2b - 3a + 4 + 2b = **-5a + 4**

**19.** 5 + 3a + 3b - 4a - 3b – 5 = **-a**

**20.** 4b + 2 · 3a = **6a + 4b**

**21.** 3 – 2 · 2b – 3a + 5b – 3 = **-3a + b**

**22.** 5a · 1 + 3 · 3b – a = **4a + 9b**

**23.** 3 (2a – 2b) = **6a – 6b**

**24.** 2 (a + b) – 2b = **2a**

**25.** 15 – 7 (2 + a) = -**7a + 1**

**26.** -3 (2a - 2b – 2) + 2 · 2b + a = **-5a + 10b +6**

**27.** 4 – (4 + 2a) + 2 (5a + 5b) = **8a + 10b**

**28.** 7a – 3 · 3a + 3 · b + 4 (-2a – 3a -2b +2) = **-22a - 5b +8**

## Sand eller falsk:

**8.** 2a + 3 **=** 5a **Falsk**

**9.** 2a + 2a + 3 – a **=** 5a + 3 **Falsk**

**10.** 3 (2a + 1) **=** 6a + 3 **Sand**

**11.** 5 · 2 (a + 2b) **=** 10a + 20b **Sand**

**12.** 7 (2 + 2a – 2b) + 3a + 10b **=** - 9 +16a + 8b – 12b + 25 + 2a – a **Sand**

**13.** 2 (-3a – 3b - 2) – (5 – 4b) **=** -5b – 3a - 5b – 3a – 9 **Falsk**

**14.** -6 (-a – b – 3) **=** 3 (a + b + a - 6) + 3b **Falsk**