

Name : \_\_\_\_\_

## Simplifying Linear Expressions

MS1

Simplify each expression.

1)  $\frac{1}{2}(8x - 6 + 2x) + 10 + 2x$

2)  $2(5a + 10) - 3(2a + 1) + 4(a + 5)$

3)  $5(2s + 4 + 3s) - 4(s - 7) - 7(5 - 4 + 7) - 10 + 3n - 30$

5)  $-3(4 + z) - 5(-4 + 7) - 2(5 - 4 + 7) - 10 + 3n - 30$

7)  $-60 + 4(5y - 3) - 2(4 - 7) - 10 + 3n - 30$

9)  $\frac{5}{4}(8d - 16 + 4d) - 15 - d + 21$

10)  $4(2p + 4 - 2p - 6) + 4(3p - 5)$

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## Answer key

MS1

### Simplifying Linear Expressions

Simplify each expression.

1)  $\frac{1}{2}(8x - 6 + 2x) + 10 + 2x$

**$7x + 7$**

2)  $2(5a + 10) - 3(2a + 1) + 4(a + 5)$

**$8a + 37$**

3)  $5(2s + 4 + 3s) - 11 - 7 - 10 + 3n - 30$

**$21s - 8$**

5)  $-3(4 + z) - 5\left(c + \frac{1}{2}\right) + 21c$

**$14z + 4$**

7)  $-60 + 4(5y - 6m) + 2m - 8$

**$50y - 44$**

9)  $\frac{5}{4}(8d - 16 + 4d) - 15 - d + 21$

**$14d - 14$**

10)  $4(2p + 4 - 2p - 6) + 4(3p - 5)$

**$12p - 28$**

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