

Grade 8 Math Workbook

Extra Practice

1 $10x - 8x + 7x + 2$	2 $(3y + 5) + (7y - 8)$
3 $(12a + 6) - (8a - 4)$	4 $11n + 5 - 9n - (7n + 4)$
5 $7u - 2(u + 5)$	6 $3(y - 2) + 5(6 + y)$
7 $(4x + 10) - 2(3x - 5)$	8 $(24n - 16) \div 4$
9 $y + (y + 4) + (y - 4)$	10 $5(2x) + 3(3x - 4) - 6(7x)$
1 1 $(8x - 6) - (3x - 6)$	1 2 $(4s - 5) - (4s - 5)$
1 3 $(8 - n) + (n - 8) + 4n$	1 4 $3(5 - 2x) - 6(x + 8)$

SHOW YOUR WORK ✓

CHECK YOUR WORK ✓✓

VALIDATE YOUR WORK ✓✓✓

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15 A repairman earns $\$3x$ per hour plus $\$60$ for traveling expenses. Write an *algebraic expression* to represent a bill for **15 hours** of work (excluding taxes).

16 Lauren buys x packages of lined paper for $\$2.25$ each (taxes included). She pays with a **\\$20 bill**. Write an *algebraic expression* to represent the amount of change the cashier should give back to Lauren.

17 Charlotte pays $\$x$ for one dozen Sharpie markers. Write an *algebraic expression* to represent the cost of **75 Sharpie markers**.

18 Simplify each of the following expressions.

① $(9x + 8) - (4x - 11)$

② $(2 - 7x) + (3x - 6x)$

③ $(14x + 15) - (13x - 12) - 16$

④ $12x + 9 - 17x$

⑤ $12(-7x)$

⑥ $6(5x - 3)$

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⑦ $4x - 8(2x + 3)$

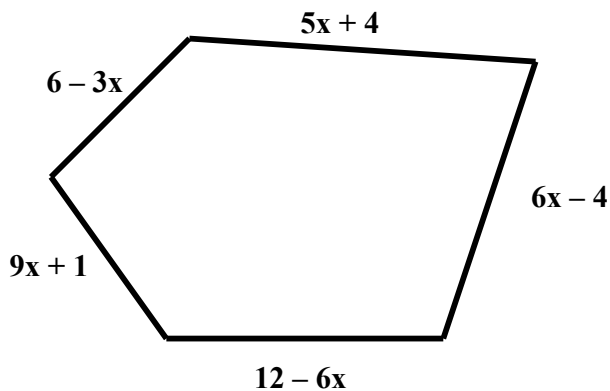
⑧ $(32x - 16) \div 4$

⑨ $(20 + 16x - 28) \div 4$

⑩ $5(6x - 7) + 4(9x + 2)$

⑪ Sam sells tickets for the Junior High School Talent Show, he sells $(7x - 9)$ \$3 tickets and $(4x + 8)$ \$4 tickets. Write a simplified algebraic expression to represent the money Sam made.

⑫ Find the simplified algebraic expression for the PERIMETER of this irregular polygon.



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