3.1–3.2 Quiz

Check It Out
Progress Check
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Identify the terms and like terms in the expression. *(Section 3.1)*

1. $11x + 2x$

2. $9x - 5x$

3. $21x + 6 - x - 5$

4. $8x + 14 - 3x + 1$

Simplify the expression. *(Section 3.1)*

5. $2(3x + x)$

6. $-7 + 3x + 4x$

7. $2x + 4 - 3x + 2 + 3x$

8. $7x + 6 + 3x - 2 - 5x$

Find the sum or difference. *(Section 3.2)*

9. $(s + 12) + (3s - 8)$

10. $(9t + 5) + (3t - 6)$

11. $(2 - k) + 3(-4k + 2)$

12. $\frac{1}{4}(q - 12) + \frac{1}{3}(q + 9)$

13. $(n - 8) - (-2n + 2)$

14. $-3(h - 4) - 2(-6h + 5)$

Factor out the coefficient of the variable. *(Section 3.2)*

15. $5c - 15$

16. $\frac{2}{9}j + \frac{2}{3}$

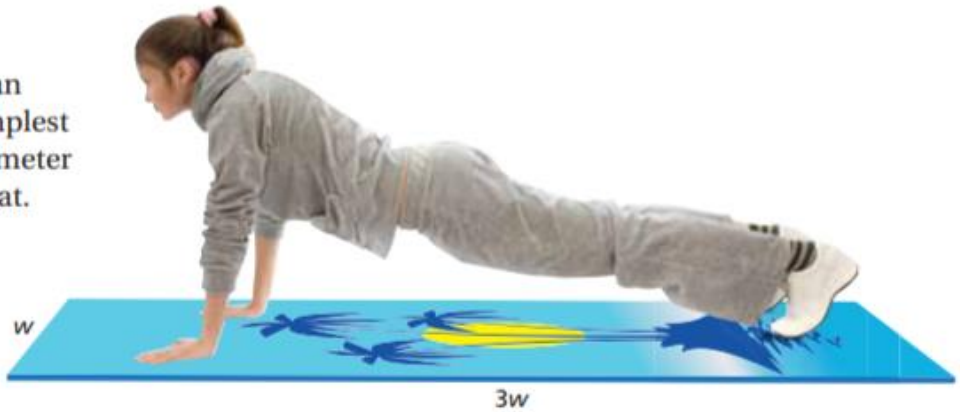
17. $2.4n + 9.6$

18. $-6z + 12$

19. PAINTING You buy the same number of brushes, rollers, and paint cans. Write an expression in simplest form that represents the total amount of money you spend for painting supplies. *(Section 3.1)*

20. APPLES A basket holds n apples. You pick $2n - 3$ apples, and your friend picks $n + 4$ apples. Write an expression that represents the number of apples you and your friend picked. Interpret the expression. *(Section 3.2)*

21. EXERCISE Write an expression in simplest form for the perimeter of the exercise mat. *(Section 3.1)*



terms	Like terms
1.) $11x, 2x$	$13x$
2.) $9x, -5x$	$4x$
3.) $21x, 6, -x, -5$	$16x, 1$
4.) $8x, 14, -3x, 1$	$5x, 15$

5.) $6x + 2x = \boxed{8x}$

6.) $\boxed{7x - 7}$

7.) $\boxed{2x - 6}$

8.) $\boxed{5x + 4}$

9.) $\boxed{45 + 4}$

10) $\boxed{12t - 1}$

11.) $(2 - k) + (-12k + 6)$

$\boxed{-13k + 8}$

12.) $\left(\frac{1}{4}q - 3\right) + \left(\frac{1}{3}q + 3\right)$

$\boxed{\frac{7}{12}}$ → $\frac{3}{12} + \frac{4}{12}$

13.) $n - (-2n) - 8 - 2$

$\boxed{3n - 10}$

14.) $-3n + 12 + 12n - 10$

$\boxed{9n + 2}$

15.) $5(c-3)$

16.) $\left(\frac{2}{9}j + \frac{6}{9}\right)$

$\frac{2}{9}(j+3)$

17.) $2.4(n+4)$

18.) $6(-z+2)$

19.) $21.79p + 3.99b + 6.89r = \text{total}$

20.) $(2n-3) + (n+4)$

$3n+1$

21.) $w + 3w + w + 3w =$

$8w$