

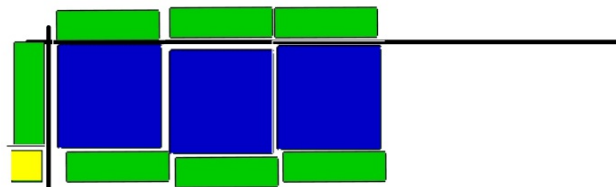
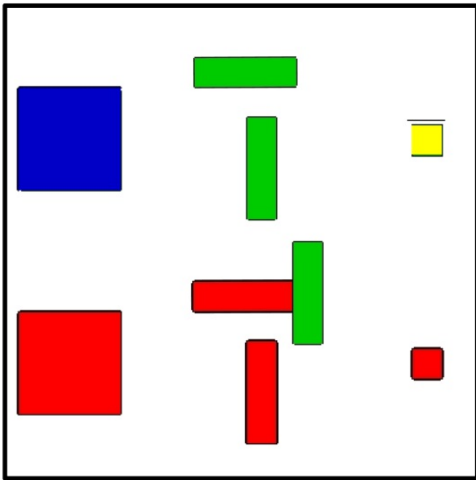
Multiply

$$\begin{array}{c} 24 \\ 8 \times 3 \\ 11 \end{array}$$

Add

$$\begin{array}{c} 55 \\ -11 \times -5 \\ -16 \end{array}$$

$$\begin{array}{c} -16 \\ 8 \times -2 \\ 6 \end{array}$$



$$3x^2 + 3x$$

$$3x(x+1)$$

GCF

Find the common factor of the terms of each polynomial.

13. $15w + 21$

14. $6a^2 - 8a$

15. $36v + 24$

16. $x^3 + 7x^2 - 5x$

17. $5b^3 + 15b - 30$

18. $9x^3 - 6x^2 + 12x$

$$x^3 + 7x^2 - 5x$$

$$x(x^2 + 7x - 5)$$

$$2x^2 + 6x$$

$$x(\cancel{2x + 6})$$

$$2x(x + 3)$$

$$10x^3 - 25x^2$$
$$5x^2(2x - 5)$$

$$6x^2y^3 + 18x^3y^5 + 8x^2y$$

$$2x^2y(3y^2 + 9xy^4 + 4)$$

.

$$16x^3y^2 - 24x^2y^3 - 16x^2y^3$$

$$8x^2y(2xy - 3x^3 - 2y^2)$$

$$2t^2 - 12t$$

$$2t(t - 6)$$

Simplify each product.

1. $8m(m + 6)$

2. $(x + 10)3x$

3. $9k(7k + 4)$

4. $-5a(a - 1)$

5. $2x^2(9 + x)$

6. $-p^2(p - 11)$

7. $2x(6x^3 - x^2 + 5x)$

8. $4y^2(9y^3 + 8y^2 - 11)$

9. $-5c^3(9c^2 - 8c - 5)$

10. $-7q^2(6q^5 - 2q - 7)$

11. $-3g^7(g^4 - 6g^2 + 5)$

12. $-4x^6(10x^3 + 3x^2 - 7)$

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Factor each polynomial.

19. $6x - 4$

20. $v^2 + 4v$

21. $10x^3 - 25x^2 + 20$

22. $2t^2 - 10t^4$

23. $15n^3 - 3n^2 + 12n$

24. $6p^6 + 24p^5 + 18p^3$

