

Determine whether each expression is a monomial. Write *yes* or *no*. Explain.

1) 12

4) $4n + 5m$

2) $4x^3$

5) $\frac{x}{y^2}$

3) $a - 2b$

6) $\frac{1}{5}abc^{14}$

Simplify.

7) $(ab^4)(ab^2)$

15) $[(-2xy^2)^3]^2$

8) $(p^5q^4)(p^2q)$

16) $(4cd)^2(-3d^2)^3$

9) $(-7c^3d^4)(4cd^3)$

17) $(-2x^5)^3(-5xy^6)^2$

10) $(-3j^7k^5)(-8jk^8)$

18) $(2ag^2)^4(3a^2g^3)^2$

11) $(9pq^7)^2$

19) $(2m^2n^3)(3m^3n)^4$

12) $(7b^2c^6)^3$

20) $\left(-\frac{3}{4}c\right)^3$

13) $[(3^2)^4]^2$

21) $\left(\frac{4}{5}a^2\right)^2$

14) $[(4^2)^3]^2$

22) $(8y^3)(-3x^2y^2)\left(\frac{3}{8}xy^4\right)$

Express the area of the figure as a monomial.

23) Area of a rectangle: $A = bh$

24) Area of a circle: $A = \pi r^2$

