

## EXIT EXAM CLASSWORK1

NAME \_\_\_\_\_

1. Choose the expression equivalent to  $3a + 3b$ .  
a.  $6ab$                       b.  $3a + b$                       c.  $3(a + b)$                       d.  $3 + (a + b)$
2. Which statement illustrates the associative property of multiplication?  
a.  $6a + 7b = 7b + 6a$                       b.  $5(a + b) = 5a + 5b$   
c.  $(5a)b = b(5a)$                       d.  $4(ab) = (4a)b$

Simplify.

3.  $-12 \div 3 \cdot 2$                       4.  $-4^2 + (-2)^4$                       5.  $2 + 5(4 - 7)$

Evaluate.

6.  $(x + y)^2$  for  $x = 5$  and  $y = -2$                       7.  $3x^2 + 2x - 5$  for  $x = 2$

8. The formula for converting Celsius temperature to Fahrenheit temperature is  $F = \frac{9}{5}C + 32$ . Convert the Celsius temperature of  $30^{\circ}C$  to Fahrenheit.

Simplify completely. Leave only positive exponents.

9.  $(2x^3)^3 + x^6 x^2 x$

10.  $4x^0 y^{-4}$

11.  $\frac{(2x^2)^3}{8x^6}$

12.  $\frac{9m^5}{6m^7 x^{-2}}$

13.  $(5x)^2(2x^3)$

Simplify.

14.  $(5x^3 - 2x^2 + x) + (7x^2 - 6x)$

15.  $(8x + 2y) - (-3x + 2y)$

16.  $4x^3(5x^2 + 1)$

17.  $(x + 5)(x - 3)$

18.  $(x + 3y)^2$

19.  $(x - 2)(x^2 + 2x + 4)$

Factor completely.

20.  $x^2 - 4x - 12$

21.  $3x^2 + 10x + 8$

22.  $x^4 - 81$

23.  $2x^4 + 6x^3$

24.  $m^2 + 5m + mx + 5x$

25. Identify a factor of the polynomial  $x^2 + 2x - 24$ .

a.  $(x + 6)$    b.  $(x - 6)$

c.  $(x + 4)$    d.  $(x - 8)$

## ANSWERS TO FINAL REVIEW CLASSWORK1

1. c
2. d
3. -8
4. 0
5. -13
6. 9
7. 11
8.  $86^{\circ}\text{F}$
9.  $9x^9$
10.  $\frac{4}{y^4}$
11. 1
12.  $\frac{3x^3}{2m^2}$
13.  $50x^5$
14.  $5x^3 + 5x^2 - 5x$
15.  $8x + 3y$
16.  $20x^5 + 4x^3$
17.  $x^2 + 2x - 15$
18.  $x^2 + 6xy + 9y^2$
19.  $x^3 - 8$
20.  $(x - 6)(x + 2)$
21.  $(x + 2)(3x + 4)$
22.  $(x^2 + 9)(x + 3)(x - 3)$
23.  $2x^3(x + 3)$
24.  $(m + 5)(m + x)$
25. a