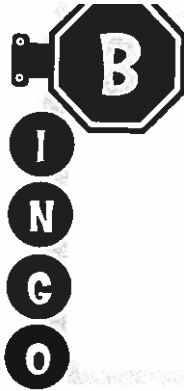




Algebra

1. $4x + 3x =$

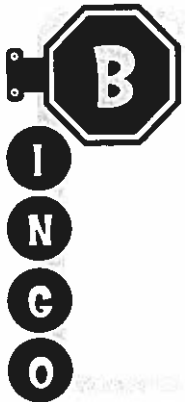
1.7x



Algebra

5. $\frac{15x^2y^4}{3xy^6}$

6. $\frac{5x}{y^2}$



Algebra

2. $4x \cdot 3x =$

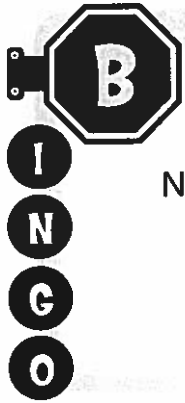
2. $12x^2$



Algebra

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

7. $2n^2 + 5n - 12$



Algebra

Name the property:
 $a + b = b + a$

3. *Commutative*



Algebra

4. $|-4| + |3| =$

8. 7



Algebra

Solve for x: $3x - 7 = 8$

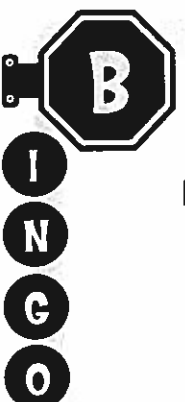
4. $x = 5$



Algebra

Evaluate: $x^2y - xy^2$
when $x = 4$ and $y = 3$

9. 12



Algebra

Factor: $x^2 - 5x + 4$

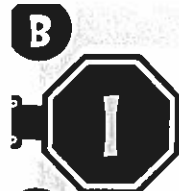
5. $(x - 4)(x - 1)$



Algebra

10. $\sqrt{81} =$

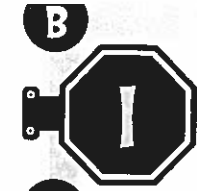
10. 9



Algebra

$$3 + 4(m + 3) =$$

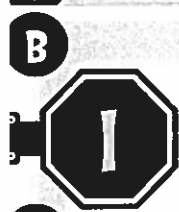
11. $4m + 15$



Algebra

$$\frac{4p}{8p^3} =$$

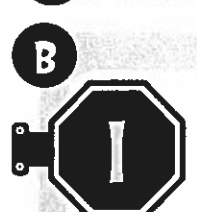
16. $\frac{1}{2p^2}$



Algebra

$$(b + 3)^2 =$$

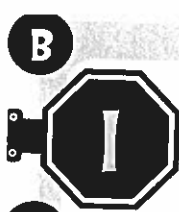
12. $b^2 + 6b + 9$



Algebra

$$(z + 2)(z + 6) =$$

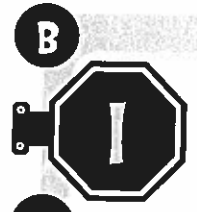
17. $z^2 + 8z + 12$



Algebra

Name the property:
 $a(b + c) = ab + ac$

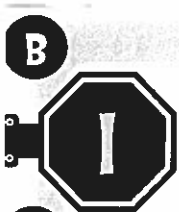
13. *Distributive*



Algebra

Simplify:
 $2 \cdot 8 - 6 \div 3 =$

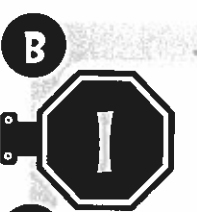
18. 14



Algebra

Solve for y:
 $2y^2 + 1 = 9$

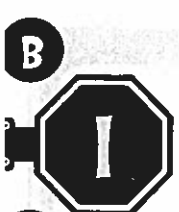
14. $y = 2$ or -2



Algebra

Evaluate: $\frac{3x}{x^2 - 8}$
when $x = 4$

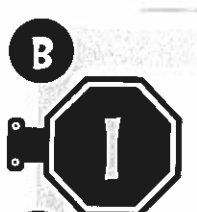
19. $\frac{3}{2}$



Algebra

Factor: $2m - 6m^2$

15. $2m(1 - 3m)$



Algebra

$$\sqrt{a^{16}} =$$

20. a^8

B
I
N

Algebra

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

21. $2x^3 - 2x^2 + 7x$

G
O
B
I

Algebra

$$(3y^2 - 6y + 5) - (2y^2 + 3y - 1)$$

22. $y^2 - 9y + 6$

G
O
B
I

Algebra

Name the property:
 $a(bc) = (ab)c$

23. *Associative*

G
O
B
I

Algebra

Solve for z: $(z + 2)(z - 5) = 0$

24. $z = -2$ or $z = 5$

G
O
B
I

Algebra

Factor: $p^2 - 9$

25. $(p - 3)(p + 3)$

G
O
B
I

G
O
B
I

B
I
N

Algebra

$$mn^4 \div n^2$$

26. mn^2

G
O
B
I

Algebra

$$a(a^3 - 2a^2 + 3)$$

27. $a^4 - 2a^3 + 3a$

G
O
B
I

Algebra

Simplify:
 $2[4 + (2^3 - 1)] =$

28. *22*

G
O
B
I

Algebra

Evaluate: $2(2x - 1)$
when $x = 3$

29. *10*

G
O
B
I

Algebra

$$\sqrt{(a + b)^4}$$

30. $(a + b)^2$

G
O
B
I

G
O
B
I

B
I
N
G
O
B
I
N
G
O
B
I
N
G
O
B
I
N
G
O

Algebra

What is the slope of:
 $y = 3x + 2$

31. 3

Algebra

What is the y-intercept of:
 $y = 3x + 2$

32. (0,2)

Algebra

Find the lowest common
multiple of $3p^2$ and $6p$

33. $6p^2$

Algebra

Find the greatest common
factor of $3p^2$ and $6p$

34. $3p$

Algebra

Factor:
 $b^2 + 10b + 25$

35. $(b + 5)^2$

Algebra

Solve for c:
 $c^2 + 3c + 2 = 0$

36. $c = -1$ or $c = -2$

Algebra

Simplify: $\frac{z}{2z+1} + \frac{z+1}{2z+1} =$

37. 1

Algebra

Solve:
 $4n + 4 = 18 - 3n$

38. $n = 2$

Algebra

If $f(x) = 2x - 3$, $f(8) =$

39. 13

Algebra

$x + y = 7$
 $x + y = 9$

40. $x = 8, y = -1$

B
I
N
G

Algebra

What is the slope of:
 $x + 2y = 6$



41. $-\frac{1}{2}$

B
I
N
G

Algebra

What is the y-intercept of:
 $x + 2y = 6$



42. $(0, 3)$

B
I
N
G

Algebra

Find the lowest common multiple of $16a$ and 24



43. $48a$

B
I
N
G

Algebra

Find the greatest common factor of $16a$ and 24



44. 8

B
I
N
G

Algebra

In which quadrants lie the graph of $y \leq x$?



45. I, III, IV

B
I
N
G

Algebra

$$\left(\frac{1}{k} - 1\right)\left(\frac{1}{k} - 2\right) = 0$$



46. $k = 1$ or $k = \frac{1}{2}$

B
I
N
G

Algebra

$$\frac{y}{y+3} - \frac{3}{2y+6} =$$



47. $\frac{2y-3}{2y+6}$

B
I
N
G

Algebra

How many roots does $x^2 + 2x - 5 = 0$ have?



48. 2

B
I
N
G

Algebra

If $g(x) = x^2 + 1$, $g(5) =$



49. 26

B
I
N
G

Algebra

$$\begin{aligned} x + 2y &= 7 \\ x - y &= 1 \end{aligned}$$



50. $x = 3, y = 2$