

Name: _____



Pre Algebra Equations

Unknown Variables: Solve the following equations using inverse operations. Show your work.

Solve for the variable.

1. $y + 9 + 12 \times y = 35$

2. $y + 11 + 6 \times y = 32$

3. $7 \times (3 - y) = 14$

4. $y + 4 + 4 \times y = 44$

5. $4 \times (1 + y) = 52$

6. $y + 3 + 2 \times y = 9$

7. $9 \times (7 - y) = 0$

8. $y + 8 + 2 \times y = 26$

9. $y + 4 + 11 \times y = 64$

10. $6 \times (2 + y) = 66$

Name: _____



Pre Algebra Equations

Unknown Variables: Solve the following equations using inverse operations. Show your work.

Solve for the variable.

1. $y + 9 + 12 \times y = 35$ $y = 2$

2. $y + 11 + 6 \times y = 32$ $y = 3$

3. $7 \times (3 - y) = 14$ $y = 1$

4. $y + 4 + 4 \times y = 44$ $y = 8$

5. $4 \times (1 + y) = 52$ $y = 12$

6. $y + 3 + 2 \times y = 9$ $y = 2$

7. $9 \times (7 - y) = 0$ $y = 7$

8. $y + 8 + 2 \times y = 26$ $y = 6$

9. $y + 4 + 11 \times y = 64$ $y = 5$

10. $6 \times (2 + y) = 66$ $y = 9$