Name _____ Class _____ Date _____

10.1 Independent Practice

COMMON CORE 6.EE.2a, 6.EE.2b, 6.EE.4, 6.EE.2.6

10. Write an algebraic expression with the constant 7 and the variable *y*.

_____

Write each phrase as an algebraic expression.

11. *n* divided by 8 _____

12. *p* multiplied by 4 _____

13. *b* plus 14 _____

14. 90 times *x* _____

15. *a* take away 16 _____

16. *k* less than 24 _____

17. 3 groups of *w* _____

18. the sum of 1 and *q* _____

19. the quotient of 13 and *z* _____

20. *c* added to 45 _____

21. 8 less than *w* _____

Write a phrase in words for each algebraic expression.

22. $m + 83$ _____

23. $42s$ _____

24. $\frac{9}{d}$ _____

25. $t - 29$ _____

26. $2 + g$ _____

27. $11x$ _____

28. $\frac{h}{12}$ _____

29. $5 - k$ _____

Sarah and Noah work at Read On Bookstore and get paid the same hourly wage. The table shows their work schedule for last week.

Read On Bookstore Work Schedule (hours)			
	Monday	**Tuesday**	**Wednesday**
Sarah	5	3	
Noah			8

30. Write an expression that represents Sarah's total pay last week. Represent her hourly wage with *w*. _____

31. Write an expression that represents Noah's total pay last week. Represent his hourly wage with *w*. _____

32. Are the expressions equivalent? Did Sarah and Noah earn the same amount last week? Use models to justify your answer.

_____

33. Mia buys 3 gallons of gas that costs d dollars per gallon. Bob buys g gallons of gas that costs $3 per gallon.

a. Write an expression for the amount Mia pays for gas. _____

b. Write an expression for the amount Bob pays for gas. _____

c. What do the numeral and the variable represent in each expression?

_____

_____

_____

_____