NO CALCULATOR ON THIS QUIZ

- 1. Evaluate each expression for A = -6 B = -4 C = -2

- \mathbf{a} . -B-AC
- b. $B^2 + A C$
- 2. Evaluate each expression for M = -5 N = -10 Q = 2

- a. $2M^2 + NO$
- b. $QN^2 \div (N + MQ)$ c. $N |QM^2 N|$

Simplify each.

- 3. |-5.4|

- 4. |8-3| 5. |12-|-5| 6. |9|+|-5+2|

Using these names: Rational Numbers, Irrational Numbers, Natural Numbers, Integers, Whole Numbers give the set(s) to which each belongs

- 7. -2.6 8. $\sqrt{9}$

- 9. -15 10. $\frac{2}{3}$ 11. $\frac{30}{3}$ 12. $\sqrt{11}$

Simplify each.

- 13. 7-4+3-1 14. $2 \cdot 6 \div 2 \cdot 3$ 15. $4[1+(5-3)^2] \div 2$
- 16. $7 + 2 \cdot 5$
- 17. $30 10((6-2) + (4-1)^2) + 1$ 18. $\frac{2+24 \div 3}{-6+1}$

Write a variable expression to EXACTLY model each statement.

- 19. The sum of a number and twelve.
- 20. The product of a number and nine.

21. Six less than a number.

- 22. The quotient of ten and a number.
- 23. The difference of five and a number.
- 24. Four more than eight times a number
- 25. Eight times the quantity a number minus three.

Write an equation and define your variables to model each.

- 26. There are 7 days in a week. Write an equation for the number of days in an unknown number of weeks.
- 27. There are 60 seconds in a minute. Write an equation for the number of minutes in an unknown number of seconds.
- 28. Sam has 5 CD's and Maryanne has 2 CD's. They both join the same music club to purchase CD's. They get a discount if they both buy the same number of CD's. If they always get the discount write an equation that shows how many CD's Maryanne has.

29.

)
5
0
30

30.

Tigers score	Angels score
5	12
12	19
18	25
27	34

- 31. Stewart was given 30 stamps for his birthday and plans to buy 4 stamps each month. Write an equation to model the number stamps Stewart will have after an unknown number of months. Define your variables.
- 32. There are six Cokes in a pack and 12 Cokes in a case. Write an equation for the number of Cokes you'll have if you purchase an unknown number of packs and cases. Define your variables.

Alg 1

Quiz #2 REVIEW

1. a. -8

b. 12

2. **a**. 30

b. -10c. -70

3. 5.4

4. 5

5. 7

6. 12

7. Rational

8. Rational, Integer, Whole #, Natural #

9. Rational, Integer

10. Rational

11. Rational, Integer, Whole #, Natural #

12. Irrational

13. 5

14. 18

15. 10

16. 17

17. - 99

18. -2

For 19 to 24, variables can vary.

19.
$$R + 12$$

20. *0*9

21.
$$Z-6$$

22. $\frac{10}{4}$

23.
$$5 - E$$

24. 8G + 4

25. 8(m-3)

Write an equation and define your variables to model each.

26. EQ: D = 7W

D = # of days

W = # of weeks

27. EQ: $M = \frac{S}{60}$ M = # of minutes S = # of seconds

28. EQ: M = S - 3 M = # CD's that Maryanne has S = #CD's that Sam has

29. EQ: w = 45M or $M = \frac{w}{45}$ or $\frac{w}{M} = 45$; M = # minutes reading w = # words read

30. EQ: A = T + 7 or T = A - 7 or A - T = 7; A =Angles score

T = Tigers score

31. EQ: T = 4m + 30

T = total # of stamps m = # months

32. EQ: 6p + 12c = T T = total number of Cokes

p = # of packs c = # of cases