

UNIT 5 REVIEW

TEST

Expressions
Equations
& Inequalities

Name _____

- Evaluate
- Translate
- Combine
- Distribute
- Factor
- Solve 1 Step Eq. w/inverse operations
- Write + Solve Equations (WP)
- Write + Graph Inequalities
- Check Solutions

Math 6

Period _____



Test Date: Wednesday 2/5

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You are responsible for the information taught in class and on homework. Remember that mathematics is a subject that spirals (it builds upon itself), so keeping up with concepts as we go is very important. Good Luck!

① Can you identify the parts of an expression?

$$8a + 3b - 27 + 2c$$

Coefficients _____ operations _____

Constants _____ variables _____

How many terms are in the given expression? _____

② Substitute values and solve.

①

m	$m + 12$
5	
10	
20	

②

c	$3c - 2$
8	
11	
20	

③ Translate the verbal model into a math expression, equation, or inequality.

③ t divided by 2 _____

④ Your carry-on luggage must be at most 50 pounds. _____

⑤ Jen sold more than 10 shirts. _____

⑥ The sum of g and 3 is 36. _____

④ Combine like terms

⑦ $w + w + w + w$ _____

⑧ $3a - 2a + 8 + 5a - 5$ _____

⑨ $10x + 20 - 3x + 7$ _____

⑩ $3e + 2f + 8 - 6$ _____

V Create an equivalent expression with the Distributive Property.

11. $3(2r + 4) =$ _____

12. $2(4x - 5) + 10x =$ _____

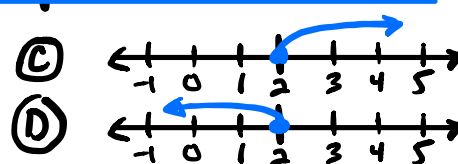
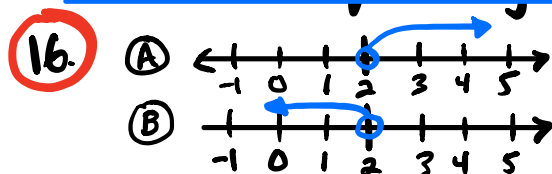
13. $5(6 + c) + 3c - 3 =$ _____

VI Create an equal expression by factoring with a greatest common factor.

14. $10m + 40n =$ _____
GCF = _____

15. $15a + 45 =$ _____
GCF = _____

Which inequality best represents $x \geq 2$



VII Solve each given equation algebraically. Check your solutions.

17. $x + 6 = 17$

18. $y + 2.3 = 30$

19. $35 = r - 4$

20. $a - 17.3 = 12.23$

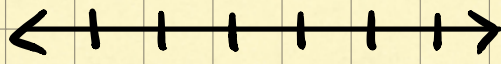
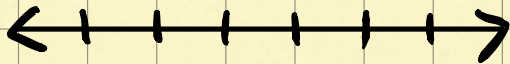
21. $8p = 24$

22. $\frac{r}{10} = 2$

VIII. Graph each inequality.

23. $n \leq 5$

24. $10 > m$



IX. Complete each table. Write an
equation to represent the rule.
Name the independent and dependent
variable.

25.

x	y
2	9
4	11
	13
8	

ind: _____

dep: _____

Rule: _____

26.

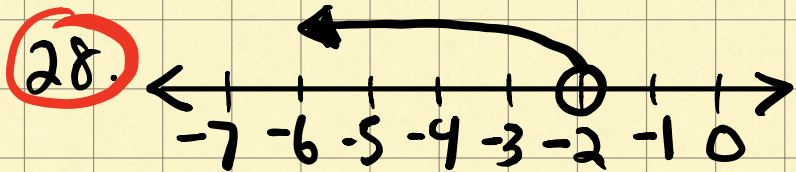
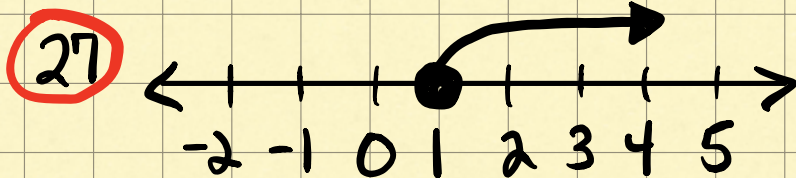
a	b
5	
6	42
7	49
	56

ind: _____

dep: _____

Rule: _____

X Write an inequality to express the number $\sqrt{16}$.



XI Determine whether the given value is a solution?

29. $3x + 2 = 17$
 $x = 5$

Yes or No

30. $w + 1 < 8$
 $w = 8$

Yes or No