

SHOW ALL WORK!!!!!!!!!!

The following questions review the topics you should know going into Algebra I Pre AP. **This packet is due the 1<sup>st</sup> Day of Class.** *If the packet is not turned in on the 1<sup>st</sup> day of class it will be marked as a zero in the grade book.* We will go over this packet the 1<sup>st</sup> day of class and a test will be given over this material the 2<sup>nd</sup> day of class. Suggested help may be found at [www.go.hrw.com](http://www.go.hrw.com). Study and Be Prepared!!!!!!

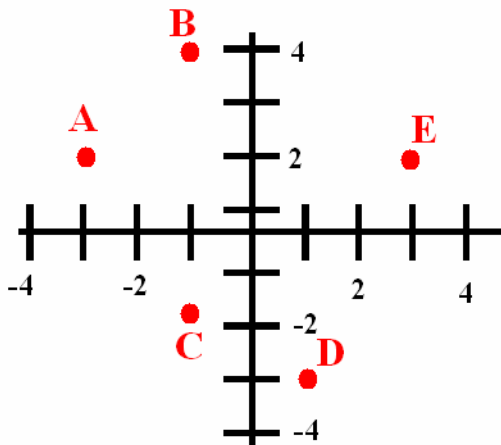
Write an algebraic expression for each verbal expression.

1. the product of 5 and  $x$
2.  $c$  less than 21
3. 15 more than  $t$
4. 18 more than twice  $x$

Evaluate each expression for  $x = 2$ ,  $y = -3$ , and  $z = 6$ .

5.  $x - z$
6.  $y + z$
7.  $xz$
8.  $z \div y$

Use the graph shown below to tell which points on the coordinate grid satisfy the conditions for 9 – 12.



9.  $x > -2$  &  $y < -2$
10.  $x < -2$  &  $y > -2$
11.  $x > -2$  &  $y > 3$
12.  $x < -2$  &  $y > 0$

### Simplify Each Expression

13.  $3^4$

14.  $(-2)^3$

15.  $(\frac{1}{3})^2$

16.  $-\sqrt{36}$

17.  $5 - 12 \div (-2)$

18.  $(5 - 8)(3 - 9)$

19.  $24 \div |4 - 10|$

20.  $20 - 4 + 5 - 2$

21.  $\sqrt{225}$

22.  $\sqrt{169}$

23.  $\sqrt{121}$

24.  $-\sqrt{400}$

### Evaluate each expression for the given value of the variable.

25.  $-6(3 - p)$  for  $p = 7$ .

26.  $(4r - 2) + 7$  for  $r = 3$

27.  $-2(11b - 3)$  for  $b = 5$

### Simplify each expression

28.  $6x + 10x$

29.  $5(x + 3) - 7x$

30.  $12x + 8x + t - 7x$

### Solve each equation

31.  $x - 10 = 4$

32.  $x + 7 = 9$

33.  $-8 + t = 2$

34.  $-11 + x = 33$

35.  $\frac{1}{8} + x = \frac{2}{3}$

36.  $v + 2300 = 800$

37.  $-\frac{1}{3} + g = \frac{2}{3}$

38.  $-5.2 + x = -8$

39.  $4x = 32$

40.  $3m = 10$

41.  $x \div 5 = 8$

42.  $2.4 = h \div 5$

43.  $-52 = -4d$

44.  $4x + 3 = 11$

45.  $8 = 3t - 1$

46.  $9 - c = -12$

47.  $2x + \frac{2}{3} = 1$

48.  $5(x + 3) = 50$

49.  $2(v - 2) = 8$

50.  $-3x - 8 + 4x = 17$

**Solve each equation**

51.  $2(y + 6) = 3y$

52.  $7t = 4t + 15$

53.  $4h + 2 = 3h$

54.  $2x + 4 = 6x - 4$

55.  $5 + 3(x - 4) = 2(x + 1)$

56.  $7z - 4 = -2z + 1 + 9z - 5$

57.  $5 - t - 2 = 3 + 4t + 5$

58.  $5 - (n - 4) = 3(n + 2)$

59.  $6 - 2x - 1 = 4x + 8 - 6x - 3$

60.  $3m - 10 = 2(4m - 5)$