

Summer Assignment

State which metric unit you would probably use to measure each item.

1. length of a computer keyboard
2. mass of a large dog

Complete each sentence.

3. 4 ft = ? in.
4. 21 ft = ? yd
5. 180 g = ? kg
6. 3 T = ? lb
7. 32 g \approx ? oz
8. 3 mi \approx ? km
9. 35 yd \approx ? m
10. 5.1 L \approx ? qt
11. **TUNA** A can of tuna is 6 ounces. About how many grams is it?
12. **CRACKERS** A box of crackers is 453 grams. About how many pounds is it? Round to the nearest pound.
13. **DISTANCE** A road sign in Texas gives the distance to Odessa as 87 miles. What is this distance to the nearest kilometer?

PROBABILITY A bag contains 3 blue chips, 7 red chips, 4 yellow chips, and 5 green chips. A chip is randomly drawn from the bag. Find each probability.

14. $P(\text{yellow})$
15. $P(\text{green})$
16. $P(\text{red or blue})$
17. $P(\text{not red})$

Evaluate each expression if $r = 3$, $q = 1$, and $w = -2$.

18. $4r + q$
19. $rw - 6$

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20. $\frac{r+3q}{4r}$

21. $\frac{5w}{3r+q}$

22. $|2-r|+17$

23. $8+|q-5|$

Solve each equation.

24. $k+3=14$

25. $a-7=9$

26. $5c=20$

27. $n+2=-11$

28. $6t-18=30$

29. $4x+7=-1$

30. $\frac{r}{4}=-8$

31. $\frac{3}{5}b=-2$

32. $-\frac{w}{2}=-9$

33. $3y-15=y+1$

34. $27-6d=7+4d$

35. $2(m-16)=44$

Solve each inequality.

36. $y-13<2$

37. $t+8\geq 19$

38. $\frac{n}{4}>-6$

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39. $9a \leq 45$

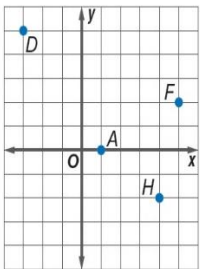
40. $x + 12 > -14$

41. $-2w < 24$

42. $-\frac{n}{7} \geq 3$

43. $-\frac{b}{5} \leq -6$

Write the ordered pair for each point shown.



44. F

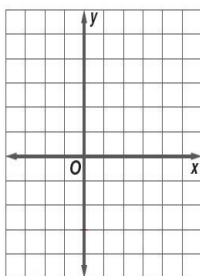
45. H

46. A

47. D

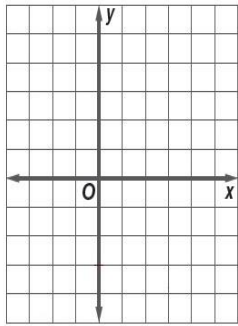
Graph and label each point on the coordinate plane.

48. $B(4, 1)$

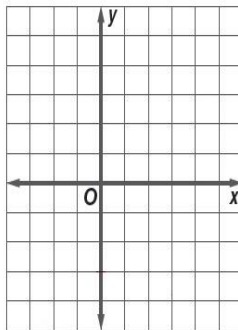


49. $G(0, -3)$

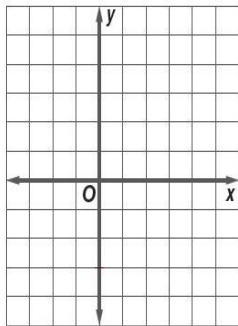
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50. $R(-2, -4)$



51. $P(-3, 3)$



52. Graph the triangle with vertices $J(1, -4)$, $K(2, 3)$, and $L(-1, 2)$.

53. Graph four points that satisfy the equation $y = 2x - 1$.

Solve each system of equations.

$$\begin{aligned} 54. & y = 2x \\ & y = -x + 6 \end{aligned}$$

$$\begin{aligned} 55. & -3x - y = 4 \\ & 4x + 2y = -8 \end{aligned}$$

$$\begin{aligned} 56. & y = 2x + 1 \\ & y = 3x \end{aligned}$$

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57. $\frac{1}{2}x - y = -1$

$x - 2y = 5$

58. $x + y = -6$

$2x - y = 3$

59. $\frac{1}{3}x - 3y = -4$

$x - 9y = -12$

Simplify.

60. $\sqrt{18}$

61. $\sqrt{\frac{25}{49}}$

62. $\sqrt{24x^2y^3}$

Name: _____ Class: Math – Geometry Date: _____

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