Quarter 3 Retake Practice Test Name\_\_\_\_\_\_\_\_\_\_\_\_

**MULTIPLE CHOICE**

**Solve the equation**

 1. 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A. |  | B. | –14 | C. | 40 | D. | –40 |

 2. *x* + 5 = 8

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A. |  | B. |  | C. |  | D. |  |

 3. 37 – 18 + 8*w* = 67

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A. | –6 | B. | 4 | C. | 7 | D. | 6 |

 4. 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A. | –31 | B. |  | C. | –50 | D. | –35 |

 5. 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A. | 3 | B. | 0 | C. | –9 | D. | –10 |

 6. Find the value of *y*.



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A. | 18 | B. | 1.8 | C. | –9 | D. | 9 |

 7. Solve the equation for *a*.



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A. |  | B. |  | C. |  | D. |  |

**Solving Inequalities**

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

 8. 

|  |  |  |  |
| --- | --- | --- | --- |
| A. | *h*   | C. | *h*   |
| B. | *h* ³  | D. | *h*   |

 9. 

|  |  |  |  |
| --- | --- | --- | --- |
| A. |  | C. |  |
| B. |  | D. |  |

**Solve the inequality.**

 10. 12*x* – 3*x* + 11 > 4*x* – (17 – 9*x*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A. | *x* > –7 | B. | *x* < 7 | C. |  | D. |  |

 11. 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A. | *d* ³  | B. | *d* ³  | C. | *d* ³  | D. |  |

 **12**. Suppose you had *d* dollars in your bank account. You spent $22 but have at least $28 left. How much money did you have initially? Write and solve an inequality that represents this situation.

|  |  |  |  |
| --- | --- | --- | --- |
| A. | ;  | C. | ;  |
| B. | ;  | D. | ;  |

13. A triangle has vertices at (1,3),(2,-3), and (-1, -1). What is the **approximate** perimeter of the the triangle?

A. 10

B. 14

C. 15

D. 16

14. R is the midpoint of segment PS. Q is the midpoint of segment RS.



P is located at (8, 10), and S is located at (12, -6). What are the coordinates of Q?

A. (4, 2)

B. (2, -8)

C. (11, -2)

D. (10, 2)

15. Find the perimeter of the triangle. Round to the nearest tenth.

A 9.1 B 18.3 C 18.6 D 17.8

**16. Find the midpoint of each segment with the given endpoints.**

(1, -5) (-5, 1)

Determine whether the lines are parallel, perpendicular or neither.

17. 18.

 

19. Find the length from *H (2, 3) to K (4, -3)*. If necessary, round to the nearest tenth.



A. 6.3

B. 7.1

C. 5.1

D. 40

**20. Determine whether the given lengths can be sides of a right triangle.** 18 m, 24 m, 30 m

21. Find the missing side length. 