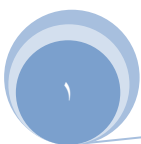


Detailed Solutions :

1. It's a real number type of data because it is used to store a real number using a decimal point.
2. It's a string type of data because it stores a series of characters (in this case a negative number using exponentials) in quotation marks.
3. Because it fits the general format of an assignment statement which is *Variable Name = Expression* where the variable Name is *not* an expression
4. $Y = 3*2-10+5-(4*1+2^2*4)$
 $Y = 3*2-10+5-(4*1+.25*4)$
 $Y = 3*2-10+5-(4+.25*4)$
 $Y = 3*2-10+5-(4+1)$
 $Y = 3*2-10+5-5$
 $Y = 6-10+5-5$
 $Y = -4+5-5$
 $Y = 1-5$
 $Y = -4$
5. $X = 16+3 \bmod 7*2-4 \bmod 3$
 $X = 16+3 \bmod 14-4 \bmod 3$
 $X = 16+3-4 \bmod 3$
 $X = 16+3-1$
 $X = 19-1$
 $X = 18$
6. $A = 4*(5*2^2/5+1)/(4+1)+2^4-9$
 $A = 4*(5*4/5+1)/(4+1)+2^4-9$
 $A = 4*(20/5+1)/(4+1)+2^4-9$
 $A = 4*(4+1)/(4+1)+2^4-9$
 $A = 4*5/(4+1)+2^4-9$
 $A = 4*5/5+2^4-9$
 $A = 4*5/5+16-9$
 $A = 20/5+16-9$
 $A = 4+16-9$
 $A = 20-9$
 $A = 11$
7. $Z = 6-3^2 \bmod 10 < 7$ AND NOT $(5+2*4 < 12)$ OR FALSE
 $Z = 6-3^2 \bmod 10 < 7$ AND NOT $(5+8 < 12)$ OR FALSE
 $Z = 6-3^2 \bmod 10 < 7$ AND NOT $(13 < 12)$ OR FALSE
 $Z = 6-3^2 \bmod 10 < 7$ AND NOT TRUE OR FALSE
 $Z = 6-9 \bmod 10 < 7$ AND NOT TRUE OR FALSE
 $Z = 6-9 < 7$ AND NOT TRUE OR FALSE
 $Z = -3 < 7$ AND NOT TRUE OR FALSE
 $Z = \text{TRUE}$ AND NOT TRUE OR FALSE
 $Z = \text{TRUE}$ AND FALSE OR FALSE
 $Z = \text{FALSE}$ OR FALSE
 $Z = \text{FALSE}$



8. $X = 10^2 > 100 \text{ OR } 2^{(6-14 \bmod 8)} = 1$
 $X = 10^2 > 100 \text{ OR } 2^{(6-6)} = 1$
 $X = 10^2 > 100 \text{ OR } 2^0 = 1$
 $X = 100 > 100 \text{ OR } 2^0 = 1$
 $X = 100 > 100 \text{ OR } 1 = 1$
 $X = \text{FALSE} \text{ OR } 1 = 1$
 $X = \text{FALSE} \text{ OR TRUE}$
 $X = \text{TRUE}$
9. $Y = \text{NOT} (8 \bmod 10 = 10 \bmod 8) \text{ OR TRUE AND } 3^2 = 3*2$
 $Y = \text{NOT} (8 = 10 \bmod 8) \text{ OR TRUE AND } 3^2 = 3*2$
 $Y = \text{NOT} (8 = 2) \text{ OR TRUE AND } 3^2 = 3*2$
 $Y = \text{NOT FALSE} \text{ OR TRUE AND } 3^2 = 3*2$
 $Y = \text{NOT FALSE} \text{ OR TRUE AND } 9 = 3*2$
 $Y = \text{NOT FALSE} \text{ OR TRUE AND } 9 = 6$
 $Y = \text{NOT FALSE} \text{ OR TRUE AND FALSE}$
 $Y = \text{TRUE} \text{ OR TRUE AND FALSE}$
 $Y = \text{TRUE} \text{ OR FALSE}$
 $Y = \text{TRUE}$
10. $X = 5$
 $N = 1 \text{ THEN } 3 \text{ THEN } 5 \text{ THEN } 7$
 $M = 1 \text{ THEN } 5$
11. It's looping because the action keeps getting repeated as long as it meets the conditions
12. N/A
13. N/A
14. $X = 1$
 $Y = 2$
 $N = 10$
15. N/A
16. $C = 5 \text{ THEN } 3 \text{ THEN } 1 \text{ THEN } -1$
 $M = 4 \text{ THEN } 7 \text{ THEN } 3$
 $X = 9 \text{ THEN } 10 \text{ THEN } 4$
17. N/A
18. $A = 3 \text{ THEN } 2$
 $B = 7 \text{ THEN } 8$
19. Counter = 1 THEN 2 THEN 3 THEN 4 THEN 5 THEN 6 THEN 7
 $X = 3$
 $Y = 12 \text{ THEN } 5 \text{ THEN } 7 \text{ THEN } 9 \text{ THEN } 6 \text{ THEN } 4$
20. It should be the oval sign
21. It should be the parallelogram

