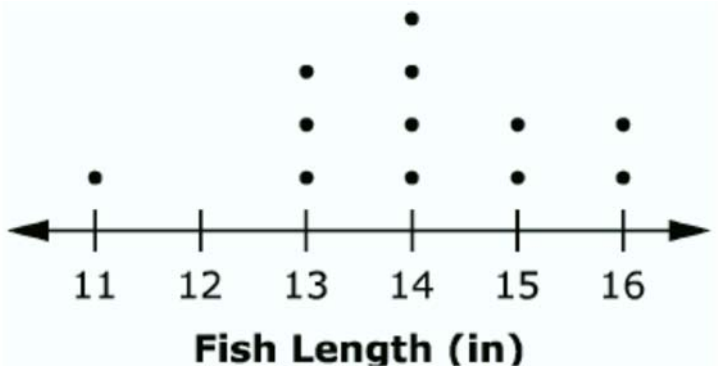
7th Grade Summer Math Packet Answers

1. Equal to 5.42: (2.71 x 2); (9.53 – 4.11), and (2.36 + 3.06)
   Not Equal to 5.42: (2.16 + 3.36); (1.80 x 3); and (8.01 – 2.69)

2. $2\frac{7}{8}$ laps

3. 16 to 30 trees and 3 elm trees for every 2 pine trees

4. 

5. A fraction less than 1 in A.
   A fractions greater than or equal to 1 in B.

6. April 14

7. a) 15

   b) 12

8. *Sample Answers*

   - 6 > -6
   - -3 < |-2|
   - 7 = |-7|

9. a. Robert's claim is incorrect. *Sample explanations:*
   - He subtracted 7 from 15 instead of -7
   - He added 15 and -7 instead of subtracting -7 from 15
   - He didn't take into account the fact that -7 is 7 below zero and 15 is 15 above zero.

   b. 15

10.

- A line segment from point A (-5, 2) to the point (7, 2)
- A line segment from point (-5, 2) to the point B (1, 6)
- A line segment from point nB(1, 6) to the point (7,2)

11. Same Readings: 35.996 g; 36.004 g, and 36.102 g
    Different Readings: 36. 011 g; 34.309 g; and 35.689 g

12. Equivalent to 8(t + 4): 8t + 32 and (8 x t) + (8 x 4)
    Equivalent to 8t + 4: 4(2t + 1); 4t + 4 + 4t; and 2(4t + 2)

13. $\frac{2}{5}$ of the total tiles being red; $\frac{2}{5}$ of the total tiles being blue; and $\frac{1}{5}$ of the total tiles being green

14. $\frac{4}{5}$ in the top box; $\frac{1}{2}$ in the middle box; and $\frac{2}{5}$ in the bottom box

15. *Possible solutions*: 2 units by 18 units; or 3 units by 12 units; or 4 units by 9 units

16. 25 sections of the model shaded to represent 2.5 meters of wire… and 01. m more wire needed

17. Any expression equivalent to: $\frac{1}{2}(3 \times h) + (h \times 6)$

18. (-a, b) = (-2, 3) ; (a, -b) = (2, -3) ; (-c, -d) = (4, -2)

19. B

20. Variability in Data: "How many pets does each 6th grader have? And "how old are the animals at the zoo?"
    No Variability in Data: "How old is the athlete?"; "How many 6th graders attend our school?"; and "How many baseball cards does the boy have?"

21. 15 lb

22. Points at (2, 700) and (3, 1050).