Mathematician: _____ date: _____ Per. _____

3.3 Practice A/B (2 day class work)

Solve the equation.

1. $10.5 + p = -8.32$

2. $3\frac{3}{4} = r + \frac{1}{8}$

3. $-\frac{7}{12} = 1\frac{5}{6} + d$

4. $t - \frac{2}{7} = \frac{1}{2}$

Write the word sentence as an equation. Then solve.

5. The sum of 8 and a number h is 12

6. -13 is 4 less than a number n.

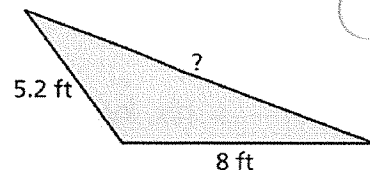**In Exercises 7-12, write an algebraic equation. Then solve.**

7. You earn $9 per hour babysitting. This is $2 more than what you earned per hour last year. What did you earn per hour last year?

8. Your mother asked you to turn the oven down to 325°F. This is 75°F less than it was. What was the original temperature?

9. The difference between the heights of your chair and your desk is $-10\frac{1}{4}$ inches. The height

of your desk is $29\frac{3}{4}$ inches. What is the height of your chair?

10. Your Two-Day-Pass to a theme park is $76.50. This is $31.41 less than your uncle's Two Day-Pass. What is the price of your uncle's pass?

11. The perimeter of a triangle is 25 feet. What is the length of the unknown side?

12. Find the value of $3x + 2$ when $7 + x = 5$.

Solve the equation.

13. $90.8 + q = -18.24$

14. $10\dfrac{2}{3} = r + 12\dfrac{1}{6}$

15. $b + 4.006 = 9$

16. $-7\dfrac{5}{8} = 1\dfrac{5}{6} + d$

17. $-10.216 + c = -12.014$

Write the word sentence as an equation. Then solve.

18. 27 is 12 more than a number x.

19. The difference of a number p and -9 is 12.

In Exercises 20-23, write an algebraic equation. Then solve.

20. You swim the 50-meter freestyle in 28.12 seconds. This is 0.14 second less than your previous fastest time. What was your previous fastest time?

21. The perimeter of a rectangular backyard is $32\dfrac{1}{2}$ m.. The two shorter sides are each $7\dfrac{3}{8}$ m. long. What is the length of the two longer sides?

22. The temperature of dry ice is −109.3°F, which is 183.6°F less than the outside temperature. What is the outside temperature?

23. Your cell phone bill in August was $61.43, which was $21.75 more than your bill in July. Your cell phone bill in July was $13.62 less than your bill in June. What was your cell phone bill in June?