Coordinate Algebra Big 20 (#2)

Circle your final answer.

Monday (8/14/17)

1. If 5 (3x – 7) = 20, then what is 6x – 8?

2. Write and solve an equation that represents the following:

   Ten less than a number is equal to nine.

3. How many inches are there in 45.6 cm?

4. Convert 14 cups to gallons:

5. Convert 12 mph to feet per second.

Tuesday (8/15/17)

6. Simplify by combining like terms:
$$-5x\text{-}13 + 7y + 26x$$

7. A teenager can wash 2 tables per minute. Write an expression for how many tables they can wash in m minutes.

8. Solve for p:
   -8 (1 + 4p) + 7p = -25 – 8p

9. Rachel has 55 inches of paper streamer left over after decorating for her mom's birthday party. Which metric unit is closes to 55 inches?
   A. 21.7 centimeters   B.   25.6 centimeters

   C. 137.7 centimeters D. 139.7 centimeters

10. Convert 12.5 yards per 2 hours into inches per week.

Wednesday (8/16/17)	**Thursday (8/17/17)**

Wednesday (8/16/17)

11. Solve for n:

$$3 + 4n + n = 2n + 15$$

12. Sally put $372 into a bank account which will now have $811 in it. Write and solve an equation that show how much was originally in the account.

13. If $x - 5 = 2$, then find the value of $6x - 20$

14. Darren has a map with the scale 2 inches = 3 miles. If Darren measures a distance of 4.5 inches on the map, how many miles does that represent?

A. 1.3 miles   B. 3.0 miles

C. 5.25 miles   D. 6.75 miles

15. Convert 50 meters per second to km/h.

Thursday (8/17/17)

16. Solve for r:

$$4 (3r + 4) = -8 (2r + 5)$$

17. Cindy lost 28 pounds while on a diet. She now weighs 157 pounds. Write and solve an equation to find her initial weight.

18. Convert 50 meters to miles.

19. Convert 6 pounds to ounces.

20. Convert 5 gallons an hour to cups per second.