Unit 1 HW 1 Name_____ Period_____

Simplify.

1. $\frac{6}{7} * \frac{5}{8}$

2. $\frac{2}{9} * \frac{12}{49} * \frac{7}{2}$

Solve the proportions.

3. $\frac{2}{5} = \frac{x}{20}$

4. $\frac{3}{8} = \frac{9}{2x}$

5. $\frac{x-4}{5} = \frac{3}{2}$

Simplify using the order of operations.

6. $12 + 21 \div 3 * 2 - 6$

7. $4(2^3 - 18 \div 6)$

Solve the equations.

8. $7x - 8 = 48$

9. $\frac{x}{9} + 3 = 6$

Unit 1 HW 1 Name_____ Period_____

Match the following with their appropriate unit of measurement by writing the letter next to it (use each once).

10. _____ Height of a cow
11. _____ Length of a cellphone
12. _____ Height of a house
13. _____ Distance across Iowa
14. _____ Width of a fingernail

a. mm
b. in
c. ft
d. yd
e. miles

Match the following with their logical measurement by writing the letter next to it (use each once).

15. _____ Width of a donut
16. _____ Height of I-74 bridge
17. _____ Height of a teacher
18. _____ Width of a garage door
19. _____ Length of a school bus

a. 22 yd
b. 162 in
c. 38 ft
d. 173 cm
e. 89 mm

20. If someone told me that it took them 10,000 seconds to do something, it would sound silly.

a. What unit of time would make more sense?

b. How would you change it to that unit of time (explain and show work below)?