

Simplify.

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

$$\frac{15}{28}$$

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

$$\frac{4}{21}$$

Solve the proportions.

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

$$x = 8$$

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

$$x = 12$$

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

$$x = 11.5$$

Simplify using the order of operations.

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

$$20$$

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

$$20$$

Solve the equations.

8. $7x - 8 = 48$

$$x = 8$$

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

$$x = 27$$

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

10. c Height of a cow
 11. b Length of a cellphone
 12. d Height of a house
 13. e Distance across Iowa
 14. a 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. e Width of a donut
 16. a Height of I-74 bridge
 17. d Height of a teacher
 18. b Width of a garage door
 19. c 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? minutes or hours
 b. How would you change it to that unit of time (explain and show work below)?
See teacher if you need assistance