

Lesson 55A

Simplify:

$$1. \frac{\frac{1}{e+f}}{\frac{1}{g}}$$

$$2. \frac{\frac{c}{a}}{\frac{b}{a+c}}$$

$$3. \frac{\frac{1}{s+t}}{\frac{1}{u}}$$

$$4. \frac{\frac{k}{x}}{\frac{y}{x+k}}$$

$$5. \frac{\frac{p}{r}}{\frac{1}{p+q}}$$

$$6. \frac{\frac{h}{c}}{\frac{d}{c+h}}$$

$$7. \frac{\frac{r+s}{1}}{\frac{1}{t}}$$

$$8. \frac{\frac{a}{v}}{\frac{w}{v+a}}$$

Simplify:

9.
$$\frac{\frac{s}{u}}{\frac{1}{s+t}}$$

10.
$$\frac{\frac{b}{w}}{\frac{x}{w+b}}$$

11.
$$\frac{\frac{1}{f+g}}{\frac{1}{h}}$$

12.
$$\frac{\frac{j}{d}}{\frac{e}{d+j}}$$

13. Solve the system by the substitution method.

$$x = 3y + 7$$

$$5x + y = -109$$

14. Solve the system by the substitution method.

$$x = 4y + 2$$

$$3x + y = 45$$

15. Solve the system by the substitution method.

$$x = 6y + 8$$

$$2x + y = 29$$

16. Solve the system by the substitution method.

$$x = 8y + 3$$

$$8x + y = 154$$

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17. Solve the system using substitution:

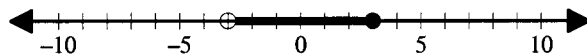
$$3x + 2y = 16$$

$$y = 3x - 10$$

- [A] (2, 5) [B] (4, 2) [C] (0, 8) [D] (5, 5)

18. Graph: $-4 < x \leq 4$

19. Write a conjunction that describes this graph.



20. Find the least common multiple of 14, 2, and 12.

21. Find the least common multiple (LCM) of $16tu^2$ and $12t^3u$.

22. Find the least common multiple (LCM) of $20bc^4$, $12b^3c$, and $4b^2c^3$

23. Find the least common multiple (LCM) of $16pq^3r^3$ and $12p^3qr^2$.

Add:

24. $\frac{3}{g^2} + \frac{3f}{g+f} - \frac{4}{g}$

25. $\frac{2}{e-f} - \frac{4}{f}$

26. The average of the first 6 weights was 25 pounds. The average of the next 9 weights was 40 pounds. What was the overall average of the weights?

27. The average of the first 6 weights was 25 pounds. The average of the next 8 weights was 31 pounds. The average of the last 6 weights was 37 pounds. What was the overall average of the weights?