

UB SAT 2009
Worksheet #2
Arithmetic Review

Advanced Fraction Practice: Do the following operations.

1. $\frac{5}{12} - \frac{1}{5}$

2. $\frac{8}{15} - \frac{4}{9}$

3. $\frac{11}{24} + \frac{15}{36}$

4. $\frac{17}{28} - \frac{33}{42}$

5. $\frac{21}{22} + \frac{8}{9}$

6. $\frac{29}{51} + \frac{9}{34}$

7. $\frac{18}{38} \cdot \frac{19}{24}$

8. $\frac{16}{5} \cdot \frac{15}{32}$

9. $\frac{3}{14} \cdot \frac{28}{9}$

10. $\frac{20}{81} \div \frac{80}{27}$

11. $\frac{\frac{24}{100}}{\frac{36}{50}}$

12. $\frac{3/8}{12/64}$

13. $\frac{1}{2} \cdot \frac{4}{3} \div \frac{4}{9} \cdot 3 \div \frac{27}{8} \cdot \frac{3}{4}$

Ratio Practice: Solve for x .

14. $\frac{3}{10} = \frac{x}{25}$

15. $\frac{8}{3} = \frac{16}{x}$

16. $\frac{21}{36} = \frac{x}{12}$

17. $\frac{11}{4} = \frac{x}{20}$

18. $\frac{1}{12} = \frac{3x}{156}$

19. $\frac{3}{4} = \frac{45}{5x}$

20. $\frac{3+x}{7} = \frac{12}{21}$

21. $\frac{11}{2} = \frac{33}{8-x}$

22. $\frac{7}{6} = \frac{28}{2x+3}$

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

24. $\frac{3}{2x-3} = \frac{9}{4x+1}$

25. $\frac{7}{3x} = \frac{28}{15x-6}$

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Answers

1. $\frac{13}{60}$

2. $\frac{4}{45}$

3. $\frac{7}{8}$

4. $-\frac{15}{84}$

5. $\frac{365}{198}$

6. $\frac{5}{6}$

7. $\frac{3}{8}$

8. $\frac{3}{2}$

9. $\frac{2}{3}$

10. $\frac{1}{12}$

11. $\frac{1}{3}$

12. 2

13. 1

14. $x = \frac{15}{2}$

15. $x = 6$

16. $x = 7$

17. $x = 55$

18. $x = \frac{13}{3}$

19. $x = 12$

20. $x = 1$

21. $x = 2$

22. $x = \frac{21}{2}$

23. $x = 7$

24. $x = 5$

25. $x = 2$