

Practice 5-1 Comparing and Ordering Fractions

Compare. Use $>$, $<$, or $=$ to complete each statement. *Justify.*

1. $\frac{2}{3} \square \frac{7}{9}$

2. $\frac{3}{5} \square \frac{7}{10}$

3. $-\frac{3}{4} \square -\frac{13}{16}$

4. $\frac{9}{21} \square \frac{6}{14}$

5. $-\frac{2}{8} \square -\frac{7}{32}$

6. $\frac{7}{9} \square -\frac{8}{9}$

7. $\frac{5}{8} \square \frac{7}{12}$

8. $-\frac{4}{5} \square -\frac{7}{8}$

9. $-\frac{4}{18} \square -\frac{6}{27}$

10. $\frac{8}{17} \square -\frac{3}{8}$

11. $\frac{4}{7} \square 2\frac{4}{7}$

12. $-\frac{9}{11} \square \frac{9}{11}$

13. $\frac{1}{3} \square -\frac{3}{9}$

14. $-\frac{12}{6} \square -\frac{9}{3}$

15. $-\frac{5}{10} \square -\frac{3}{4}$

Find the LCM of each group of numbers or expressions.

16. 7, 21 _____

17. 24, 32 _____

18. 15, 50 _____

19. $9a^3b, 18abc$ _____

20. $28xy^2, 42x^2y$ _____

21. 9, 12, 16 _____

22. A quality control inspector in an egg factory checks every forty-eighth egg for cracks and every fifty-fourth egg for weight. What is the number of the first egg each day that the inspector checks for both qualities?

Can leave answer in exponential form.

23. A stock sold for $3\frac{5}{8}$ one day and $3\frac{1}{2}$ the next. Did the value of the stock go up or down? Explain.

24. Marissa needs $2\frac{2}{3}$ yards of ribbon for a wall-hanging she wants to make. She has $2\frac{3}{4}$ yards. Does she have enough ribbon? Explain.

Order from least to greatest.

25. $\frac{2}{3}, \frac{3}{4}, \frac{1}{2}$

26. $\frac{2}{5}, \frac{1}{3}, \frac{3}{7}, \frac{4}{9}$

27. $\frac{8}{11}, \frac{9}{10}, \frac{7}{8}, \frac{3}{4}$

Practice 5-2 Fractions and Decimals

Write as a fraction or mixed number in simplest form.

1. 0.4 _____ 2. 0.75 _____ 3. 0.16 _____
 4. 2.34 _____ 5. 0.09 _____ 6. 8.8 _____

Write each fraction or mixed number as a decimal.

7. $\frac{17}{20}$ _____ 8. $\frac{7}{8}$ _____ 9. $-\frac{9}{16}$ _____
 10. $3\frac{1}{8}$ _____ 11. $6\frac{9}{32}$ _____ 12. $2\frac{87}{125}$ _____
 13. $\frac{13}{25}$ _____ 14. $4\frac{31}{50}$ _____ 15. $-\frac{7}{12}$ _____
 16. $\frac{4}{9}$ _____ 17. $\frac{5}{18}$ _____ 18. $\frac{15}{11}$ _____

Order from least to greatest

19. $0.4, \frac{3}{5}, \frac{1}{2}, \frac{3}{10}$ _____
 20. $-\frac{3}{8}, -\frac{3}{4}, -0.38, -0.6$ _____
 21. $\frac{1}{4}, -\frac{1}{5}, 0.2, \frac{2}{5}$ _____

22. Write an improper fraction with the greatest possible value using each of the digits 5, 7, and 9 once. Write this as a mixed number and as a decimal.

Write each decimal as a fraction or mixed number in simplest form.

23. $10.\overline{07}$ _____ 24. $3.\overline{44}$ _____ 25. $-4.\overline{27}$ _____
 26. $0.\overline{09}$ _____ 27. $0.\overline{375}$ _____ 28. $0.\overline{243}$ _____

Compare. Use $<$, $>$, or $=$ to complete each statement.

29. $\frac{5}{6}$ 0.8 30. $\frac{7}{11}$ 0.65 31. $4.\overline{2}$ $4\frac{2}{9}$
 32. $-\frac{3}{11}$ -0.25 33. $0.\overline{80}$ $\frac{80}{99}$ 34. $-0.4\overline{3}$ $-\frac{7}{16}$

Challenge
(optional)