Epsilon Placement Pre/Post Test

Solve.

1. $\dfrac{1}{2}$ of 24 = _____

2. $\dfrac{2}{3}$ of 18 = _____

3. $\dfrac{7}{8}$ of 64 = _____

Fill in the missing numbers in the numerators or denominators to make equivalent fractions.

4. $\dfrac{3}{4}$ = ——— = ——— = $\dfrac{}{16}$

5. $\dfrac{9}{10}$ = ——— = ——— = $\dfrac{36}{}$

Compare the fractions and write the correct symbol in the oval.

6. $\dfrac{5}{7}$ ◯ $\dfrac{3}{5}$

7. $\dfrac{4}{8}$ ◯ $\dfrac{3}{6}$

8. $\dfrac{4}{8}$ ◯ $\dfrac{2}{3}$

Solve.

9. $\dfrac{3}{9} + \dfrac{5}{9} =$

10. $\dfrac{1}{2} + \dfrac{1}{4} + \dfrac{7}{8} =$

11. $\dfrac{4}{5} - \dfrac{1}{3} =$

12. $\dfrac{1}{3} \div \dfrac{1}{5} =$

13. $3\dfrac{1}{3} \div \dfrac{5}{18} =$

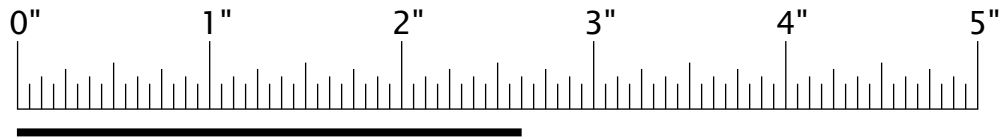14. $3\dfrac{4}{5} \div 2\dfrac{7}{25} =$

Solve.

15. $\begin{array}{r} 7\dfrac{1}{4} \\ - \; 5\dfrac{3}{4} \\ \hline \end{array}$

16. $\begin{array}{r} 9\dfrac{2}{3} \\ + \; 6\dfrac{5}{9} \\ \hline \end{array}$

17. $\begin{array}{r} 5\dfrac{1}{5} \\ - \; 2\dfrac{5}{6} \\ \hline \end{array}$

Write the length of the line.

18. _____ in

0"   1"   2"   3"   4"   5"

Solve for the unknown and check your work.

19. 7X + 9 = 44

20. Check for #19

21. $\frac{3}{8}$ A − 8 = 13

22. Check for #21

23. $\frac{5}{6}$ G + $\frac{1}{6}$ = $\frac{5}{12}$

24. Check for #23

Solve.

25. $\frac{5}{8} \times \frac{1}{3} \times \frac{3}{5}$ = _____

26. $\frac{4}{5} \times 2\frac{3}{4} \times 3\frac{1}{3}$ = _____

Write each fraction in hundredths. Then write it as a decimal and as a percent.

27. $\dfrac{4}{5}$ = $\dfrac{}{100}$ = _____ = _____%

28. $\dfrac{1}{4}$ = $\dfrac{}{100}$ = _____ = _____%

29. What is the GCF of 15 and 45?

30. What are the prime factors of 56?

31. Change 7⅔ to an improper fraction.

32. Is 498 divisible by 9?

33. What is the approximate area of a circle with a radius of 21 feet?

34. What is the approximate circumference of a circle with a radius of 21 feet?