

Arithmetic Placement Test Study Guide

- Write 6.4% as:
 - a decimal number and
 - a fraction in simplest form
- Add. $\frac{3}{4} + \frac{2}{3}$
- What is the perimeter of a 9 ft by 11 ft rectangle?
- At State College, 25% of the students are freshmen. If there are 4,000 students at State, how many are freshmen?
- Lisa bought $1\frac{7}{12}$ lbs of cherries. She used $\frac{7}{8}$ lb of the cherries in a fruit salad. How many pounds of cherries were left over?
- 4 is what percent of 25?
- Write $\frac{7}{8}$ as a decimal.
- Multiply. $3,000,000 \times 0.00009$
- Divide. $5\frac{2}{5} \div 2\frac{1}{10}$
- If the sales tax rate is 6%, how much tax would you pay for a book that costs \$20?
- Write 6.45 as a mixed number in lowest terms.
- One week Brian rode his bike 20 miles. The next week he rode $\frac{3}{5}$ of that distance. How far did he ride the second week?
- The student enrollment at State College increased from 20,000 to 35,000 over an 8 year period. What was the percent increase?
- Estimate:
 - 79.6×8.923
 - $53.8 \div 11.4$
- What is the area of a rectangle with base $3\frac{1}{3}$ yds and height $1\frac{2}{7}$ yds?
- $62\frac{1}{2}\%$ of what number is 40?
- On a map, 0.25 in = 3 miles. How many inches on the map represent 27 miles?
- Subtract. $14 - 4\frac{5}{9}$
- Write $2\frac{3}{10}$ as a percent.
- Divide. $1.632 \div 1000$
- In a speech class, there are 28 freshmen. If this is 80% of the class, how many students are in the class?
- Find the quotient and remainder.
 $2453 \div 12$
- What is the circumference of a circle with diameter 9 cm?
- An item is on sale for \$24. The sale price represents a 20% discount off the original price. What was the original price?
- Add. $16\frac{1}{6} + 14\frac{1}{9}$
- The price of an item dropped from \$60 to \$36. What was the percent decrease?
- Sam bought 6 pounds of sliced turkey. If he puts $\frac{1}{3}$ lbs. of turkey on each sandwich, how many sandwiches can he make?
- Subtract. $23\frac{17}{1000} \square 6.0207$
- A biology class has 34 females and 28 males. What is the ratio, in lowest terms, of males to total students?
- What is 50% of 27?

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ANSWERS

1. a) .064 b) $\frac{8}{125}$
2. $1\frac{5}{12}$
3. 40 ft.
4. 1,000
5. $\frac{17}{24}$ lb
6. 16%
7. 0.875
8. 270
9. $2\frac{4}{7}$
10. \$1.20
11. $6\frac{9}{20}$
12. 12 miles
13. 75%
14. a) 11 720 b) 115
15. $4\frac{2}{7}$ sq yd
16. 64
17. 2.25 in
18. $9\frac{4}{9}$
19. 230%
20. 0.001632
21. 35
22. 204 R5
23. 11 28.26 cm
24. \$30
25. $30\frac{5}{18}$
26. 40%
27. 18
28. 16.9963
29. $\frac{14}{31}$
30. 13.5