Arithmetic Practice Test For ACCUPLACER

A. Operations with whole numbers and fractions

1. A plane is flying at an altitude of 5987 feet. It then increases its altitude by 2398 feet. What is the plane's new altitude?

    a) 3589   b) 8385   c) 3699   d) 8285

2. The owner of an agricultural feed store ordered $\frac{1}{3}$ cubic yard of oats, $\frac{3}{8}$ cubic yard of corn and $\frac{1}{4}$ cubic yard of mixed grains. What was the total cubic yards of products purchased?

    a) $\frac{1}{5}$ b) $\frac{5}{6}$ c) $\frac{11}{12}$ d) $\frac{23}{24}$

3. Two cars start driving the same direction from the same point in a straight line. After 10 hours, the first car has traveled 632 miles and the second car has traveled 441 miles. How far apart are the cars?

    a) 191 miles   b) 1073 miles   c) 182 miles   d) 218 miles

4. Tom and Sally ordered a pizza. Tom ate $\frac{1}{3}$ of the pizza and Sally had $\frac{2}{5}$. How much pizza is left over?

    a) $\frac{5}{8}$ b) $\frac{3}{8}$ c) $\frac{11}{15}$ d) $\frac{4}{15}$

5. Simplify $\frac{3}{4} \div \frac{2}{9}$

    a) $\frac{1}{6}$ b) $\frac{27}{8}$ c) $\frac{5}{13}$ d) $\frac{6}{36}$

6. Which of the following is not equivalent to $\frac{333.3}{10}$?

    a) $33\frac{33}{100}$ b) 33.33   c) $\frac{3333}{100}$ d) $333\frac{3}{100}$

7. Find the product of 43 and 18.

    a) 61   b) 774   c) 126   d) 387

8. Find the product: $\dfrac{2}{3} \times \dfrac{1}{5}$.

    a) $\dfrac{3}{8}$ b) $\dfrac{2}{15}$ c) $\dfrac{3}{10}$ d) $\dfrac{2}{8}$

B. Operations with decimals and percents

9. Renee's paycheck stub showed wages of $375.89 at the regular rate of pay and $36.10 at the overtime rate. What were her total wages?

    a) $411.99   b) $401.99   c) $339.79   d) $311.99

10. Chris Howe works at Cub Foods. During one week he worked 3.5 hours, 7.4 hours and 5 hours. How many hours did he work altogether that week?

    a) 11.4 hours   b) 10.4 hours   c) 15.9 hours   d) 14.9 hours

11. David went to a store and bought $12.72 worth of merchandise. He paid with a 20-dollar bill. How much change does David get back?

    a) $32.72   b) $7.28   c) $17.28   d) $5.28

12. A pizza consists of 20 slices. 45% of the slices have pepperoni on them. How many slices of the pizza do NOT have pepperoni on them?

    a) 11   b) 9   c) 10   d) 8

13. Consider the real number 2.718359. The digit 3 is in the _____ place.

    a) tenths   b) thousandths   c) hundredths   d) ten thousandths

14. In simplest form, which of the following fractions represents the decimal 0.05?

    a) $\dfrac{1}{20}$ b) $\dfrac{5}{100}$ c) $\dfrac{5}{10}$ d) $\dfrac{1}{200}$

15. About 40% of the animals taken in by the Animal Humane Society in one year were cats. If about 8,000 cats were taken in that year, about how many total animals were taken in?

    a) 3,200   b) 2,000   c) 20,000   d) 32,000

16. 50% of the 4.7 million people bitten annually by dogs are children. About how many of the people bitten by dogs are children?

    a) 2.35 million   b) 9.4 million   c) 10.6 million   d) 235 million

17. In an office of 20 people, 8 are not parents and 12 are single parents. What percent of the people in the office are single parents?

    a) 15%   b) 66%   c) 40%   d) 60%

18. A recipe calls for 3 cups of flour. If you only have a 1/2-cup to measure the flour, how many 1/2-cups will you need for the recipe?

    a) 6   b) $1\dfrac{1}{2}$ c) 5   d) $3\dfrac{1}{2}$

19. 30 is what percent of 75?

    a) 0.4%   b) 2.5%   c) 40%   d) 250%

20. $399.8 \div 9.8$ is approximately

    a) 40   b) 4,000   c) 30   d) 3000

21. 25% of 1595 is approximately?

    a) 64   b) 6,400   c) 400   d) 40,000

22. Find the product: 0.3×0.2

    a) 6   b) 0.6   c) 0.06   d) 0.05

23. What is 20% of 24?

    a) 12   b) 48   c) 4.8   d) 1.2

24. The fraction $\frac{1}{5}$ is equal to what percentage?

   a) 25%   b) 20%   c) 5%   d) 15%

25. All of the following are equivalent to 40 percent, EXCEPT

   a) $\frac{2}{5}$ b) $\frac{4}{10}$ c) $\frac{40}{10}$ d) $\frac{40}{100}$

C. Applications and Problem Solving

26. A shirt costs $13.00 at a local store. If the sales tax on the shirt is 6%, how much money is spent to purchase the shirt.

   a) $13.06   b) $13.78   c) $19.00   d) $13.60

27. Richard stopped at a bank and withdrew 30% of his $9,360 savings. After this, he stopped at a second bank and withdrew 20% of his $10,050 checking account. How much money did he withdraw in total?

   a) $4,818   b) $3,882   c) $9,705   d) $5,823

28. Juan is putting up a wallpaper border around his rectangular kitchen that measures 9 feet long by 12 feet wide. How many feet of wallpaper border does he need?

   a) 21 feet   b) 42 feet   c) 108 feet   d) 98 feet

29. If a large circular pizza has a diameter of about 16 inches, what is the approximate area of the pizza?

   a) 200 sq in   b) 50 sq in   c) 800 sq in   d) 400 sq in

30. If a car can go 300 miles on 12 gallons, how far can it go on 1 gallon?

   a) 24 miles   b) 288 miles   c) 3600 miles   d) 25 miles

31. Suppose you hike 14 miles in 4 hours. Write the rate at which you hiked as a fraction in lowest terms.

a) $\dfrac{7 \text{ miles}}{2 \text{ hours}}$　　b) $\dfrac{2 \text{ miles}}{7 \text{ hours}}$　　c) $\dfrac{14 \text{ miles}}{4 \text{ hours}}$　　d) $\dfrac{7 \text{ hours}}{2 \text{ miles}}$

32. If you earn $31.25 for 5 hours of work, what is your hourly rate?

a) $6.13 per hour　b) $6.21 per hour　　c) $6.25 per hour　　d) $5.85 per hour

33. A towel manufacturer requires $\dfrac{5}{8}$ yard of fabric for each towel. Find the number off towels that can be made from 600 yards of fabric.

a) 375　　　　b) 300　　　　c) 860　　　　d) 960

34. Sally needs to ride her bike 15 miles to the grocery store. If she has already ridden 11 miles, how many more miles must she ride?

a) 15 miles　　b) 11 miles　　c) 4 miles　　d) 5 miles