

Practice Problems 6

1. Between 9 AM and 10 AM one hundred airplanes departed from Newark Airport. Ten of the airplanes were delayed by an hour each. Of the remaining airplanes, half left on time and half were delayed by an average of 20 minutes. To the nearest whole minute, how long was the average flight delay?

- A** 15 **B** 18 **C** 27 **D** 30 **E** 40

2. There are 75 people in a room. Of these people, $\frac{2}{5}$ are from Germany. If $\frac{4}{9}$ of the people who are not from Germany are from France, how many of the people in the room are from neither Germany nor France?

- A** 7 **B** 12 **C** 15 **D** 25 **E** 35

3. If 6 days ago was Wednesday, what day will it be 701 days from now?

- A** Wednesday **B** Thursday **C** Friday **D** Saturday **E** Sunday

4. A 20 ounce box of corn flakes costs \$2.50. If you cannot buy part of a box, how much will it cost to buy 6 pounds of corn flakes? There are 16 ounces in a pound.

- A** \$5.00 **B** \$10.00 **C** \$12.00 **D** \$12.50 **E** \$15.00

5. After a 20% price increase, the new price of a jacket is \$78. What was the jacket's original price?

- A** \$60.00 **B** \$62.00 **C** \$62.40 **D** \$63.60 **E** \$65.00

6. One meter equals 100 centimeters. How many cubic centimeters are in one cubic meter?

- A** 100 **B** 1000 **C** 10,000 **D** 100,000 **E** 1,000,000

7. Evaluate the following:

$$\frac{1 + \frac{1}{4}}{1 + \frac{1}{1 - \frac{1}{4}}} =$$

- A** 19/16 **B** 35/12 **C** 1 **D** 12/35 **E** 15/28

8. How many integers between 1 and 1000 are multiples of 21?

- A 46 B 47 C 48 D 49 E 50

9. When I was in Italy I wanted to exchange American money (dollars) for Italian money (lire). At that time the exchange rate was 3000 lire = \$1.20. How many lire did I receive in exchange for \$2.00?

- A 3600 B 4400 C 4800 D 5000 E 5600

10. What is the smallest product one can obtain by multiplying together two numbers from the set:

$\{-7, -5, -1, 1, 3\}$

- A -35 B -21 C -15 D -1 E 3

11. The Mud Hens won 40 of their first 50 games. How many of their remaining 30 games must they win so that they will have won 70% of their games for the season?

- A 12 B 14 C 16 D 18 E 10

12. Calculate the value of the expression:

$$2\frac{1}{7} + 3\frac{1}{2} + 5\frac{1}{19} =$$

- A $< 10\frac{1}{2}$ B $10\frac{1}{2}$ to 11 C 11 to $11\frac{1}{2}$ D $11\frac{1}{2}$ to 12 E > 12

13. What digit should replace A in this correct multiplication example?

$$\begin{array}{r} 3A3 \\ \times 13 \\ \hline 4849 \end{array}$$

- A 0 or 1 B 2 or 3 C 4 or 5 D 6 or 7 E 8 or 9

14. An ordinary die has the numbers 1 through 6 on its faces. What is the probability that throwing a pair of dice will give you the same number on both?

- A $\frac{1}{6}$ B $\frac{1}{12}$ C $\frac{1}{24}$ D $\frac{1}{30}$ E $\frac{1}{36}$

15. The ratio of Caroline's age to Eve's age is 3:5. Eve is 30 years old. How many years difference is there between Eve's age and Caroline's age?

- A 6 B 12 C 15 D 18 E 20

A D A D E E E B D B C B D A B
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