

### Practice Problems 4

1. Which one of these five expressions has a different value from the others?

**A**  $1 - (2 \times 3) + 4$       **B**  $-1 \times (2 - 3) \times (-4) - 5$       **C**  $((1 \times 2 - 3) - 4) \div 5$   
**D**  $(1 \times 2) - 3$       **E**  $((1 - 2) - 3) \div 4$

2. How many different three-digit numbers can be made using the digits 1, 2, and 3? Each digit can be used as often as you wish.

**A** 6      **B** 12      **C** 24      **D** 27      **E** 30

3. There are 4.54 liters in a gallon. Roughly how many gallons are there in 100 liters?

**A** 454      **B** 105      **C** 20      **D** 22      **E** 25

4. If the following numbers are arranged in order of size, which one is in the middle?

**A** 0.120      **B** 0.121      **C** 0.112      **D** 1/8      **E** 0.102

5. A boy and a half eats a pie and a half in a day and a half. At this rate how many days does it take one boy to eat one pie?

**A** 2/3      **B** 1      **C** 3/2      **D** 2      **E** 3

6. In the subtraction on the right, "B" and "C" each represent the same digit whenever they appear. What is the value of B?

$$\begin{array}{r} 14BB \\ - CCC \\ \hline 434 \end{array}$$

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

7. Calculate the following:

$$\frac{\frac{2}{3} - \frac{1}{4}}{\frac{1}{2} + \frac{5}{6}} \div \frac{3}{8}$$

**A** 20/9      **B** 5/2      **C** 5/16      **D** 5/9      **E** 20/3

8. In many different ways can you make 65¢ using quarters, dimes and nickels?

- A** 11      **B** 12      **C** 13      **D** 14      **E** 15

9. The average pay of the five workers in a restaurant is \$240 per week. If the four waiters earn a weekly average of \$200, how much per week is the cook paid?

- A** \$160      **B** \$250      **C** \$280      **D** \$360      **E** \$400

10. What is the largest prime factor of 1998?

- A** 2      **B** 3      **C** 11      **D** 37      **E** 111

11. Which is the smallest prime number among the following?

- A** 147      **B** 157      **C** 167      **D** 177      **E** 187

12. What is the sum of the reciprocals of all the factors of 24. Both 1 and 24 are considered to be factors of 24.

- A**  $59/24$       **B**  $5/2$       **C**  $65/24$       **D**  $53/24$       **E**  $41/24$

13. Which one of these numbers is equal to the product of the other four numbers?

- A** -2      **B**  $3/4$       **C**  $1/6$       **D**  $-1/4$       **E** 9

14. Which of the following is the largest?

- A** 62%      **B**  $3/5$       **C**  $5/8$       **D**  $1.81 \div 3$       **E**  $2/3$

<b>B</b> <b>D</b> <b>D</b> <b>A</b> <b>C</b> <b>B</b> <b>A</b> <b>D</b> <b>E</b> <b>D</b> <b>B</b> <b>B</b> <b>B</b> <b>E</b>
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