

### Practice Problems 5

- How many pounds of chocolate chips must be added to 12 pounds of cookie dough in order to make chocolate chip cookies which contain 25% chocolate?  
**A** 2      **B** 3      **C** 4      **D** 6      **E** 8
- Which of these numbers is not equivalent to 33%?  
**A**  $1/3$       **B** 0.33      **C**  $66/200$       **D**  $33/100$       **E**  $99/300$
- At the wedding reception there were ten people sitting at each of twenty tables. Eighty of the people left. All but 25% of those remaining got up to dance. How many people were left sitting at the tables?  
**A** 20      **B** 25      **C** 30      **D** 90      **E** 120
- Which is the largest?  
**A**  $5 \times \frac{1}{3} \times \frac{1}{4}$       **B**  $(\frac{1}{2} \times 3) + 2$   
**C**  $2 \times \frac{3}{2} \div \frac{1}{2}$       **D**  $\frac{2}{3} \times \frac{1}{2} \div \frac{1}{3}$   
**E**  $0.2 \times 2 \times \frac{1}{2} \times \frac{3}{2}$
- How many feet of fence does it require to surround a square field having an area of one million square feet?  
**A** 1000      **B** 2000      **C** 4000      **D** 8000      **E** 16,000
- Apples cost \$2/lb but 15 apples cost \$4. How many pounds does an apple weigh?  
**A**  $2/15$       **B**  $15/2$       **C**  $1/15$       **D**  $1/30$       **E** 15
- Beth reads 5 pages in 4 minutes. Al reads 1 page in 1 minute. In 7 hours how many more pages will Beth read than Al?  
**A** 84      **B** 105      **C** 120      **D** 125      **E** 140
- A train travels 24 miles in 36 minutes. What is its speed in miles per hour?  
**A** 36      **B** 40      **C** 45      **D** 48      **E** 60

9. Calculate the following:

$$5 \times 11^2 - 55 \left( \frac{2^4 - 4}{2 \times 3} \right)^2 =$$

**A** <101      **B** 101 to 200    **C** 201 to 400    **D** 401 to 600    **E** >600

10. A room is  $\frac{1}{2}$  full of people. After 20 people leave, the room is  $\frac{1}{3}$  full. How many people does the room hold when it is full?

**A** 60      **B** 75      **C** 80      **D** 90      **E** 120

11. A prime is a number with no whole number factors other than 1 and itself. How many primes are between 20 and 40?

**A** 3      **B** 4      **C** 5      **D** 6      **E** 7

12. A leap year exceeds 52 weeks by how many days?

**A** 1      **B** 2      **C** 3      **D** 4      **E** 5

13. I have a pile of socks which contains 12 white socks, 12 black socks, and 12 red socks. How many socks must I take from the pile to be certain that I have at least one matching pair?

**A** 3      **B** 4      **C** 13      **D** 14      **E** 25

14. There are 2 boys for every 3 girls in Mrs. Sorrentino's class. If there are 30 students in the class, what percentage are boys?

**A** 20      **B** 25      **C** 30      **D** 33      **E** 40

15. If bricks are each 3 inches  $\times$  4 inches  $\times$  8 inches, how many bricks can be fit into a space which is 1 foot  $\times$  4 feet  $\times$  8 feet?

**A** 1 to 250    **B** 251 to 500    **C** 501 to 750    **D** 751 to 1000    **E** >1000

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