

Unit 9: Putting It All Together

PRACTICE

Name: _____ Date: _____

Solve each problem and write your final answer in simplest form.

1. The ratio of boys to girls in a class is 4:5. If there are 16 boys, how many girls are there?

Answer: _____

2. 12 pencils cost \$3. What is the cost per pencil, in dollars?

Answer: _____

3. A shirt normally costs \$40. It is on sale for 25% off. What is the discount amount, in dollars?

Answer: _____

4. Compute $\frac{5}{6} \div \frac{2}{3}$. Give your answer as a fraction in simplest form.

Answer: _____

5. Compute $\frac{7}{8} - \frac{1}{4}$. Give your answer as a fraction in simplest form.

Answer: _____

6. Evaluate the expression $2x^2$ when $x = 3$.

Answer: _____

7. Compute $-15 + 9$.

Answer: _____

8. Compute $4 - (-7)$.

Answer: _____

9. Evaluate the expression $4(a + 3)$ when $a = 2$.

Answer: _____

10. Solve for x : $x - 8 = -3$.

Answer: _____

11. Evaluate $20 - 2 \times 3^2$.

Answer: _____

12. A machine fills 8 bottles in 2 minutes at a constant rate. How many bottles does it fill in 10 minutes?

Answer: _____