

### MINI-ASSESSMENT for 092 Readiness

Name \_\_\_\_\_

Date \_\_\_\_\_

In questions 1-4, solve for  $n$ .

1.  $7n + 15 - 3n - 6 = 33 - 2n$

2.  $2(-3n + 7) + 4 = -3$

3.  $5(n + \frac{3}{8}) = \frac{3}{4} + 2n$

4.  $6n + 7 = n - 28$

5. Joachim is making cookies. Each batch of cookies requires 6 cups of flour and 4 eggs. If Joachim uses 36 eggs, how many cups of flour will he use?

6.  $\frac{5}{8} + \frac{2}{3} \times \frac{1}{4} =$

7.  $4(3 + 1) - 5^2 + (-12) \div 2 =$

8. Henriette drives 420 miles in 6 hours. Her brother Gareth drives 90% as fast as Henriette, for 8 hours. How far does Gareth travel?

9. Evaluate the following expression for  $x=4$  and  $y=-3$

$$\left| -3(5 + 2x) + \frac{6}{y} \right| =$$

10. Ray and Ornette work at a sandwich shop. Ray makes a certain number of sandwiches, while Ornette makes 4 less than three times the amount of sandwiches that Ray does. Ray and Ornette combined make 56 sandwiches.

Choose which equation shows the combined sandwich-making output of Ray and Ornette, using “ $x$ ” to represent the amount Ray makes. Then, solve for  $x$ .

- A.  $3x - 4 = 56$
- B.  $4 - 3x = 56$
- C.  $4x - 4 = 56$
- D.  $4 - 4x = 56$

$x =$  \_\_\_\_\_