Test, Form 1B

Write the letter for the correct answer in the blank at the right of each question.

Translate each sentence into an equation.

1. Four times a number increased by 3 is -89.

　A. $-3n + 4 = -89$ 　　　**C.** $4n + 3 = -89$

　B. $4n - 3 = -89$ 　　　**D.** $4 + 3n = -89$

　1. ____**C**____

2. Five more than three-fourths a number is -19.

　F. $-\frac{3}{4}n + 5 = -19$ 　　　**H.** $\frac{3}{4}n + 5 = -19$

　G. $5n - \frac{3}{4} = -19$ 　　　**I.** $5 - \frac{3}{4}n = -19$

　2. ____**H**____

Solve each equation.

3. $15 + \frac{1}{4}p = 2$

　A. 60 　　　**B.** -52 　　　**C.** 52 　　　**D.** -60

　3. ____**B**____

4. $-0.5x = 3.6$

　F. -72 　　　**G.** -7.2 　　　**H.** 7.2 　　　**I.** 72

　4. ____**G**____

5. $\frac{d}{3} - 10 = -2$

　A. 36 　　　**B.** 24 　　　**C.** -24 　　　**D.** -36

　5. ____**B**____

6. $8 - 3m = 26$

　F. 18 　　　**G.** 6 　　　**H.** -6 　　　**I.** -18

　6. ____**H**____

7. $\frac{7}{9}w = 56$

　A. 8 　　　**B.** 9 　　　**C.** 72 　　　**D.** 504

　7. ____**C**____

8. Guadalupe wants to buy new goggles that cost $31.50. She has $4.50 and plans to save $2.25 each week. How many weeks will it take her to save the money?

　F. 14 weeks 　　　**H.** 11 weeks

　G. 12 weeks 　　　**I.** 10 weeks

　8. ____**G**____

Test, Form 1B   *(continued)*

9. In a contest, each finalist must answer 4 questions correctly. Each question is worth twice as much as the question before it. The fourth question is worth $2,000. How much is the first question worth?

   A. $1,000   **C.** $250

   B. $500   **D.** $125   **9.** _____**C**_____

Solve each equation.

10. $3x - 4 = 18 + 5x$

   F. 22   **G.** 11   **H.** -11 **I.** -22 **10.** _____**H**_____

11. $4u - 2 = -6u + 28$

   A. -15 **C.** all real numbers

   B. 3   **D.** 15   **11.** _____**B**_____

12. $-3x + 3 = -15 + 6x$

   F. null set   **G.** 2   **H.** 4   **I.** -2 **12.** _____**G**_____

13. $-6x - x + 10 = 15 - 7x - 5$

   A. all real numbers   **C.** 10

   B. -12 **D.** 12   **13.** _____**A**_____

14. $-2(p - 1) = 15$

   F. $\frac{13}{2}$ **H.** 8

   G. all real numbers   **I.** $-\frac{13}{2}$ **14.** _____**I**_____

15. $0.3(r + 2) = -0.1(-2r - 4)$

   A. -22 **B.** -1 **C.** -2 **D.** null set   **15.** _____**C**_____

16. The Walsh family has 4 children. Ryan is 2 years younger than his older brother Patrick. Kelly is 2 years younger than Ryan. Caroline and Kelly are twins. If Patrick is 12, how old is Caroline?

   F. 8   **H.** 10

   G. 9   **I.** 11   **16.** _____**F**_____

17. Chris and Lisa went shopping and spent a total of $25.50. Lisa spent $13.50 more than what Chris spent. How much did Lisa spend?

   A. $12   **C.** $19

   B. $19.50   **D.** $6.50   **17.** _____**B**_____