

**Test, Form 2A**

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

**Translate each sentence into an equation.**

1. 12 birds are 3 more than twice the number of birds Rhonda saw yesterday.

A.  $12 = 3b + 2$

C.  $12 = 2b + 3$

B.  $12 = 3 - 2b$

D.  $12 = \frac{b}{3} + 2$

1. \_\_\_\_\_

2. The difference between two-thirds of a number and 4 is  $-92$ .

F.  $\frac{2}{3}n - 4 = -92$

H.  $4n - \frac{2}{3} = -92$

2. \_\_\_\_\_

G.  $\frac{2}{3} - 4n = -92$

I.  $-\frac{2}{3}n + 4 = -92$

3. Negative 6 times the sum of a number and 4 is 2.

A.  $-6n + 4 = 2$

C.  $-6 + 4n = 2$

B.  $-6(n + 4) = 2$

D.  $-6n - 4 = 2$

3. \_\_\_\_\_

**Solve each equation.**

4.  $-2.17 = 0.35r$

F. 6.2

H.  $-7.6$

4. \_\_\_\_\_

G. all real numbers

I.  $-6.2$

5.  $2\frac{2}{5}w = 21\frac{3}{5}$

A.  $-9$

B. 5

C. null set

D. 9

5. \_\_\_\_\_

6.  $-25 = \frac{1}{3}n - 10$

F. null set

G. 45

H.  $-15$

I.  $-45$

6. \_\_\_\_\_

7.  $4 - 5y = -16$

A.  $-5$

C. 5

7. \_\_\_\_\_

B. 4

D. all real numbers

8.  $-17 = -7c + 4$

F.  $\frac{7}{13}$

H. 3

8. \_\_\_\_\_

G.  $\frac{13}{7}$

I. all real numbers

9.  $\frac{x+5}{4} = -4$

A. null set

B. 21

C.  $-21$

D.  $-36$

9. \_\_\_\_\_

**Test, Form 2A** *(continued)*

SCORE \_\_\_\_\_

10. Elyse wants to buy a new softball glove that costs \$46.50. She has \$15 and plans to save \$5.25 each week. How many weeks will it take her to save the money?

F. 9 weeks      G. 8 weeks      H. 7 weeks      I. 6 weeks

10. \_\_\_\_\_

11. To catch an 8:30 A.M. bus, Kendra needs 45 minutes to shower and dress, 20 minutes for breakfast, and 10 minutes to walk to the bus stop. To catch the bus, what is the latest time she should wake up?

A. 6:45 A.M.      B. 7:05 A.M.      C. 7:15 A.M.      D. 7:25 A.M.

11. \_\_\_\_\_

**Solve each equation.**

12.  $-5x = -40 + 3x$

F. 20

H. -5

12. \_\_\_\_\_

G. 5

I. identity

13.  $\frac{3}{4}(x-16) = -2(x-3) + 4$

A. null set

B. 8

C. 4

D. -4

13. \_\_\_\_\_

14.  $-7b - 3 = -3b + 5$

F. -2

G. 2

H. -5

I. null set

14. \_\_\_\_\_

15.  $-2(y-4) = 20 - 2y - 12$

A. 4

C. -4

15. \_\_\_\_\_

B. identity

D. -12

16.  $2(v-4) - 10 = -2(-1 + 4v)$

16. \_\_\_\_\_

17. Mabel scored 19 points more on her math test than Nancy. Phoebe scored 10 points less on her math test than Nancy. If Phoebe scored 23 points, how many points did Mabel score?

17. \_\_\_\_\_

18. The figures below show sketches of Earl's and Dylan's flower gardens. If the perimeter of each of their gardens is the same, what is the length and width of Earl's garden?

18. \_\_\_\_\_

