912A31 Form A

- 1 Solve 7(x-2) = 7x + 14. A. no solution **B.** 0 **C.** 2 **D.** all real numbers
- 2 Leah scored p points in the first half of the basketball game. In the second half, she scored 3 more than $\frac{1}{2}$ the number of points she scored in the first half of the game. Altogether, she scored 21 points in the game. The following equation represents this situation where p represents the number of points Leah scored in the first half.

$$p + \left(\frac{1}{2}p + 3\right) = 21$$

How many points did Leah score in the first half?

F.6 **G.**9 **H.**12 **I.**18

3 Gloria earns 1.5 times her normal hourly pay for each hour that she works over 40 hours in a week. Her normal pay is *p* dollars per hour. Last week Gloria worked 47 hours and earned \$489.85. The following equation represents this situation where *p* is Gloria's normal hourly pay in dollars per hour.

40p + 7(1.5p) = 489.85

What is Gloria's normal hourly pay? A. \$5.90 B. \$6.95 C. \$8.70 D. \$9.70

- 4 Solve 3(a-4) + 2(a+1) = 10 5a. **F.** 0 **G.** 2 **H.** all real numbers **I.** no solution
- 5 When solving the equation, what property was used to go from Step 2 to Step 3?

Step 1: -(2x + 3) = x - 18Step 2: -2x - 3 = x - 18Step 3: -3 = 3x - 18

A. Addition Property of Equality B. Subtraction Property of Equality C. Multiplication Property of Equality D. Division Property of Equality

912A31 Form A Answer Section

1	ANS:	А	PTS:	1	STA:	MA.912.A.3.1
2	ANS:	Н	PTS:	1	STA:	MA.912.A.3.1
3	ANS:	D	PTS:	1	STA:	MA.912.A.3.1
4	ANS:	G	PTS:	1	STA:	MA.912.A.3.2
5	ANS:	А	PTS:	1	STA:	MA.912.A.3.2