## 912A31 Form A

1 Solve $7(x-2)=7 x+14$.
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.

$$
40 p+7(1.5 p)=489.85
$$

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

4 Solve $3(a-4)+2(a+1)=10-5 a$.
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: $-(2 x+3)=x-18$
Step 2: $-2 x-3=x-18$
Step 3: $-3=3 x-18$
A. Addition Property of Equality
B. Subtraction Property of Equality
C. Multiplication
D. Division Property of Equality Property of Equality

## 912A31 Form A

Answer Section

1 ANS: A
2 ANS: H
3 ANS: D
4 ANS: G
5 ANS: A

PTS: 1
PTS: 1
PTS: 1
PTS: 1
PTS: 1

STA: MA.912.A.3.1
STA: MA.912.A.3.1
STA: MA.912.A.3.1
STA: MA.912.A.3.2
STA: MA.912.A.3.2

