8th Grade Systems of Equations: Substitution and Elimination

Common Core 8.EE.C.8b Time: 35 min Total: 17 marks Two-sided: questions continue on the back

G8SYS1

NAME or INITIALS (BLOCK CAPITALS, one letter per box)

ANSWERS — write each final answer in its box. Only these boxes are marked.

1

2

3

4

5

6

7

8

1 **1 mark**

Solve the system. Write your answer as $(x,\ y)$.

$$x + y = 10$$
$$x - y = 4$$

answer in box 1 on the front

2 **1 mark**

Solve the system. Write your answer as $(x,\ y)$.

$$y = 2x$$
$$x + y = 9$$

answer in box 2 on the front

3 **2 marks**

Solve the system. Write your answer as $(x,\ y)$.

$$y = x + 1$$
$$2x + y = 10$$

answer in box 3 on the front

4 **2 marks**

Solve the system. Write your answer as $(x,\ y)$.

$$2x + y = 11$$
$$x - y = 1$$

answer in box 4 on the front

Questions continue on the back. Only the answer boxes above are marked.

Teachers: have this class set marked in a minute and race it live, free.
Scan the QR code or go to **instantmathsheets.com/r/G8SYS1**

5 Solve the system. Write your answer as $(x,\ y)$. **2 marks**

$$3x + 2y = 16$$
$$x + 2y = 8$$

answer in box 5 on the front

6 Solve the system. Write your answer as $(x,\ y)$. **3 marks**

$$2x + 3y = 12$$
$$4x - y = 10$$

answer in box 6 on the front

7 Solve the system. Write your answer as $(x,\ y)$. **3 marks**

$$5x - 2y = 4$$
$$3x + 4y = 18$$

answer in box 7 on the front

8 Student tickets cost \$5 and adult tickets cost \$8. 30 tickets were sold for \$195 in total. How many student tickets were sold? **3 marks**

answer in box 8 on the front