

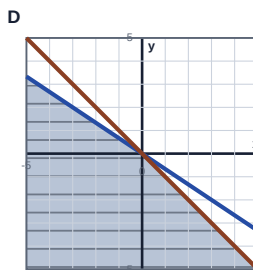
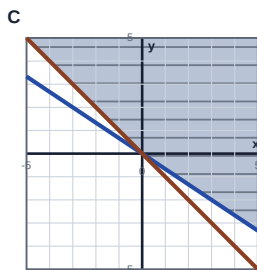
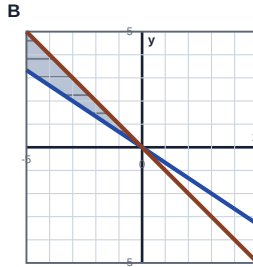
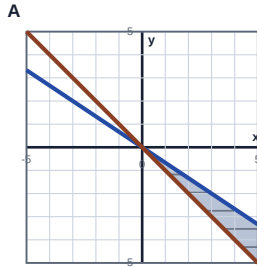
Systems of Inequalities: Graph Choice

Choose the graph whose boundary lines and overlapping shaded region match each system.

1. Choose the matching graph.

$$2x + 3y \leq 0$$

$$x + y \geq 0$$



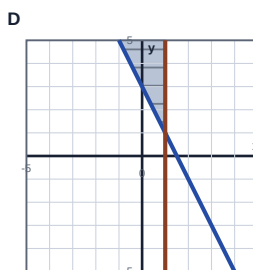
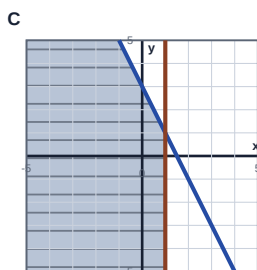
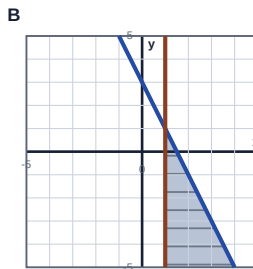
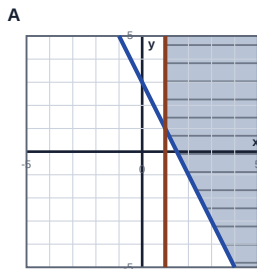
Each grid square = 1 unit.

Answer: _____

2. Choose the matching graph.

$$2x + y \geq 3$$

$$x \leq 1$$



Each grid square = 1 unit.

Answer: _____

Math Sheet

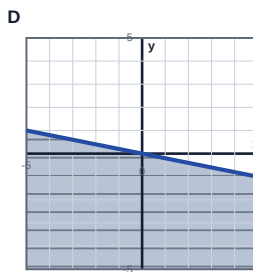
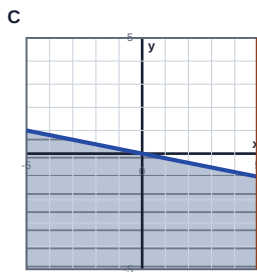
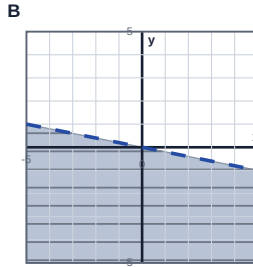
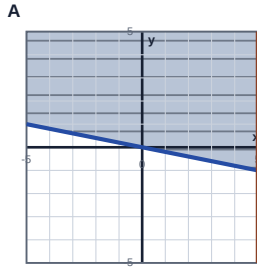
Name _____ Score _____ Teacher _____ Date _____

Systems of Inequalities: Graph Choice

Choose the graph whose boundary lines and overlapping shaded region match each system.

3. Choose the matching graph.

$$\begin{aligned} y &\leq -\frac{1}{5}x \\ x &\leq 5 \end{aligned}$$

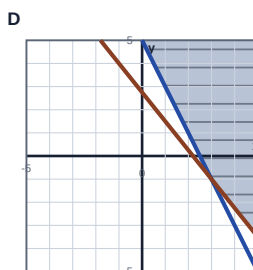
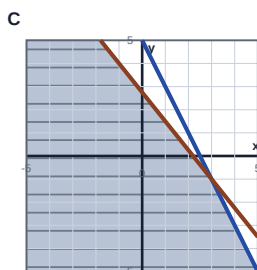
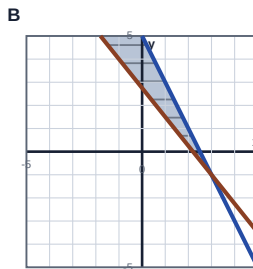
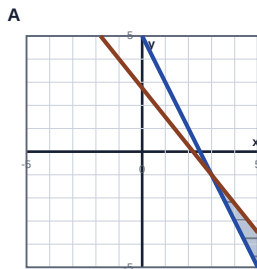


Each grid square = 1 unit.

Answer: _____

4. Choose the matching graph.

$$\begin{aligned} y &\leq -2x + 5 \\ y &\geq -\frac{5}{4}x + \frac{11}{4} \end{aligned}$$



Each grid square = 1 unit.

Answer: _____

Math Sheet

Name _____ Score _____ Teacher _____ Date _____

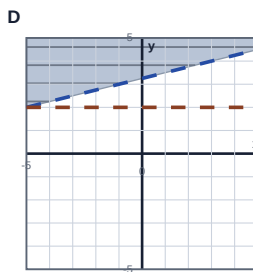
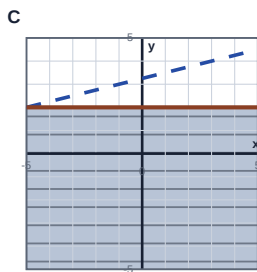
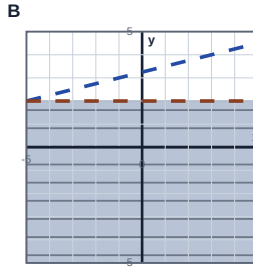
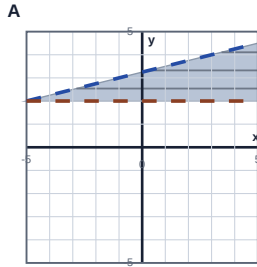
Systems of Inequalities: Graph Choice

Choose the graph whose boundary lines and overlapping shaded region match each system.

5. Choose the matching graph.

$$x - 4y > -13$$

$$y < 2$$



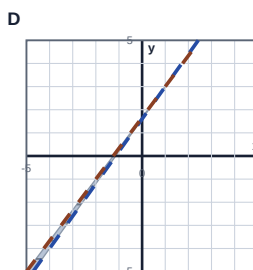
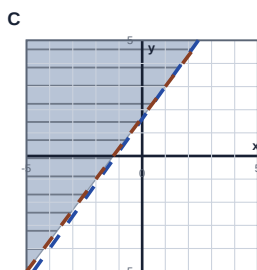
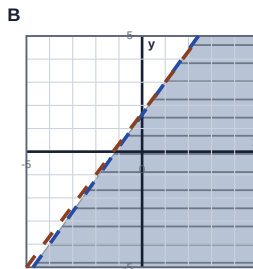
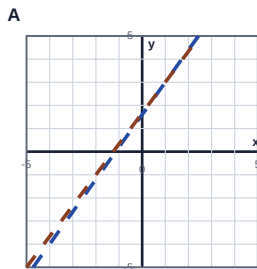
Each grid square = 1 unit.

Answer: _____

6. Choose the matching graph.

$$7x - 5y < -8$$

$$4x - 3y < -5$$



Each grid square = 1 unit.

Answer: _____

Math Sheet

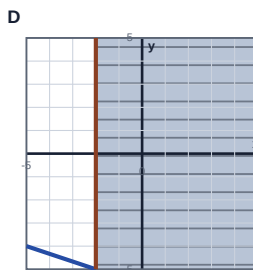
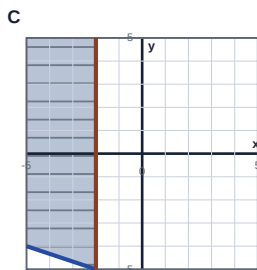
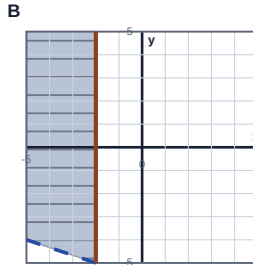
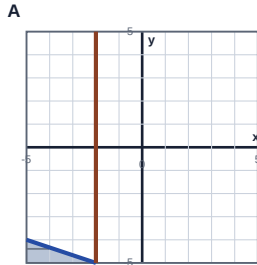
Name _____ Score _____ Teacher _____ Date _____

Systems of Inequalities: Graph Choice

Choose the graph whose boundary lines and overlapping shaded region match each system.

7. Choose the matching graph.

$$\begin{aligned} y &\geq -\frac{1}{3}x - \frac{17}{3} \\ x &\leq -2 \end{aligned}$$



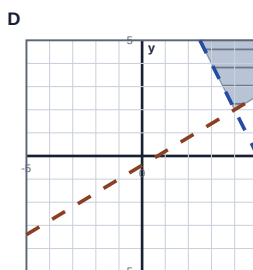
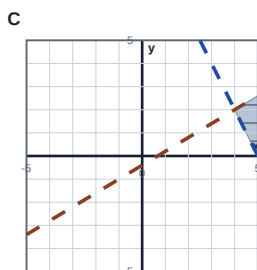
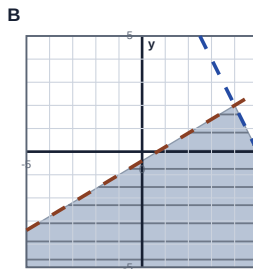
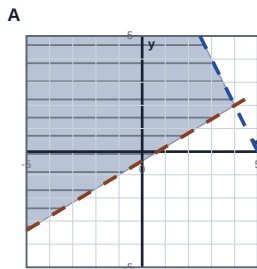
Each grid square = 1 unit.

Answer: _____

8. Choose the matching graph.

$$y < -2x + 10$$

$$y < \frac{3}{5}x - \frac{2}{5}$$



Each grid square = 1 unit.

Answer: _____

Systems of Inequalities: Graph Choice

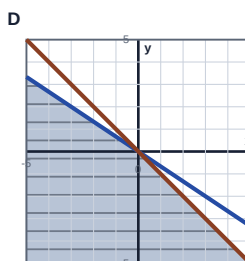
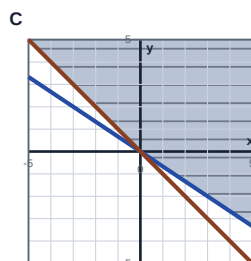
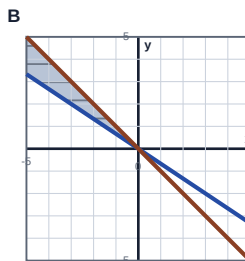
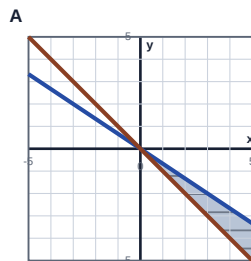
Worked Answer Key

Choose the graph whose boundary lines and overlapping shaded region match each system.

1. Choose the matching graph.

$$2x + 3y \leq 0$$

$$x + y \geq 0$$



Each grid square = 1 unit.

1 ($\leq$): solid; shade toward $(10/3, -25/9)$. 2 ($\geq$): solid; shade toward $(10/3, -25/9)$.

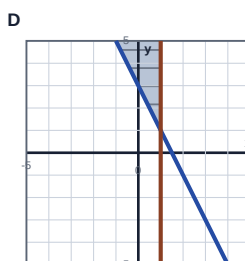
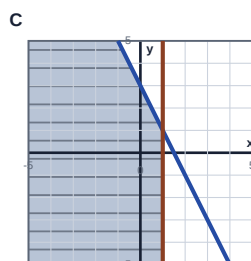
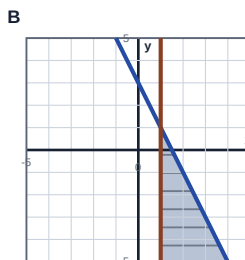
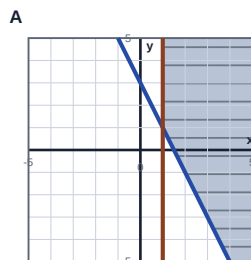
The two shaded half-planes overlap in choice A.

Answer: A

2. Choose the matching graph.

$$2x + y \geq 3$$

$$x \leq 1$$



Each grid square = 1 unit.

1 ($\geq$): solid; shade toward $(1/3, 11/3)$. 2 ($\leq$): solid; shade toward $(1/3, 11/3)$.

The two shaded half-planes overlap in choice D.

Answer: D

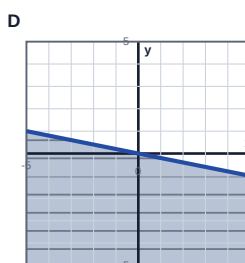
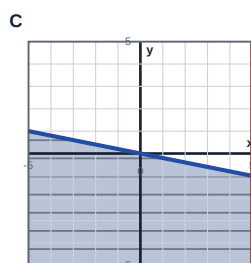
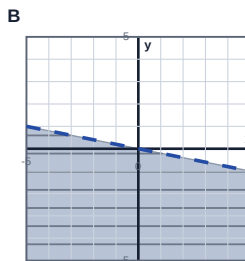
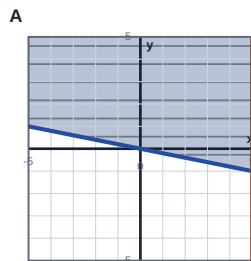
Systems of Inequalities: Graph Choice

Worked Answer Key

Choose the graph whose boundary lines and overlapping shaded region match each system.

3. Choose the matching graph.

$$\begin{aligned} y &\leq -\frac{1}{5}x \\ x &\leq 5 \end{aligned}$$



Each grid square = 1 unit.

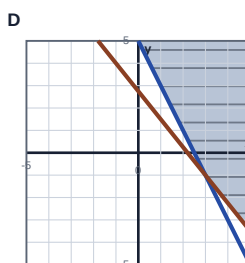
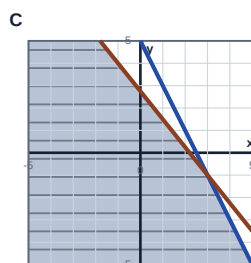
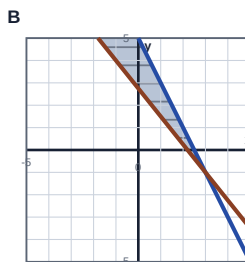
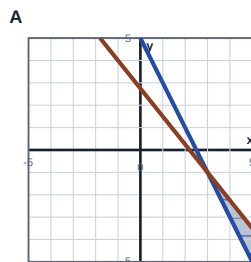
1 ($\leq$): solid; shade toward (0, -5/2). 2 ($\leq$): solid; shade toward (0, -5/2).

The two shaded half-planes overlap in choice C.

Answer: C

4. Choose the matching graph.

$$\begin{aligned} y &\leq -2x + 5 \\ y &\geq -\frac{5}{4}x + \frac{11}{4} \end{aligned}$$



Each grid square = 1 unit.

1 ($\leq$): solid; shade toward (2/5, 3). 2 ($\geq$): solid; shade toward (2/5, 3).

The two shaded half-planes overlap in choice B.

Answer: B

Systems of Inequalities: Graph Choice

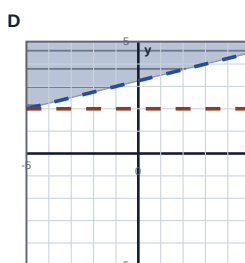
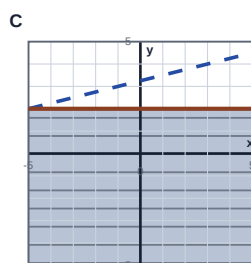
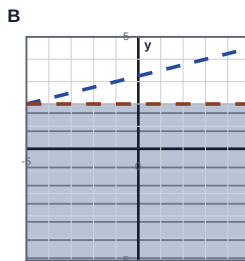
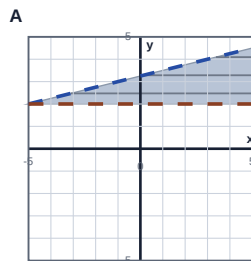
Worked Answer Key

Choose the graph whose boundary lines and overlapping shaded region match each system.

5. Choose the matching graph.

$x - 4y > -13$

$y < 2$



Each grid square = 1 unit.

1 ($>$): dashed; shade toward (0, -3/2). 2 ($<$): dashed; shade toward (0, -3/2).

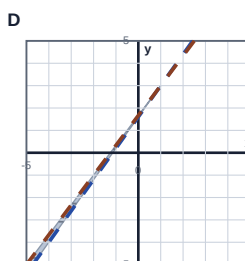
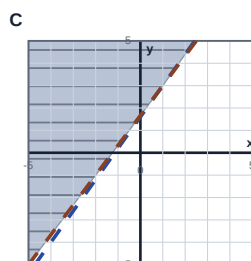
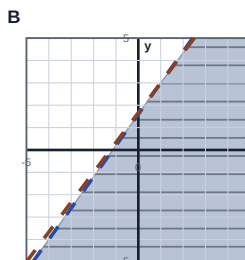
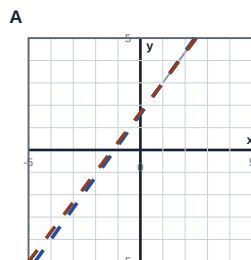
The two shaded half-planes overlap in choice B.

Answer: B

6. Choose the matching graph.

$7x - 5y < -8$

$4x - 3y < -5$



Each grid square = 1 unit.

1 ($<$): dashed; shade toward (-23/14, 2). 2 ($<$): dashed; shade toward (-23/14, 2).

The two shaded half-planes overlap in choice C.

Answer: C

Systems of Inequalities: Graph Choice

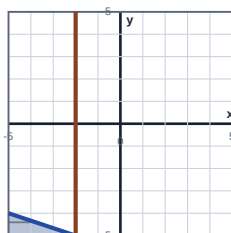
Worked Answer Key

Choose the graph whose boundary lines and overlapping shaded region match each system.

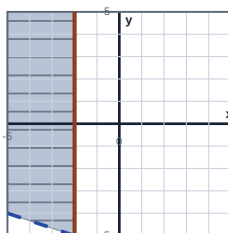
7. Choose the matching graph.

$$\begin{aligned} y &\geq -\frac{1}{3}x - \frac{17}{3} \\ x &\leq -2 \end{aligned}$$

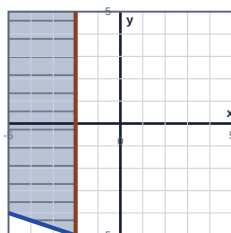
A



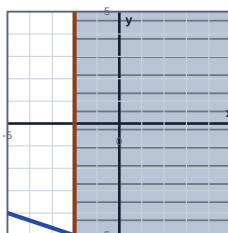
B



C



D



Each grid square = 1 unit.

1 ($\geq$): solid; shade toward $(-7/2, 1/4)$. 2 ($\leq$): solid; shade toward $(-7/2, 1/4)$.

The two shaded half-planes overlap in choice C.

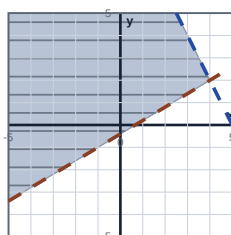
Answer: C

8. Choose the matching graph.

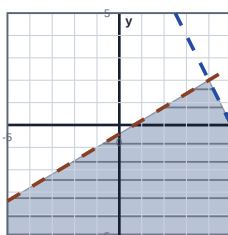
$$y < -2x + 10$$

$$y < \frac{3}{5}x - \frac{2}{5}$$

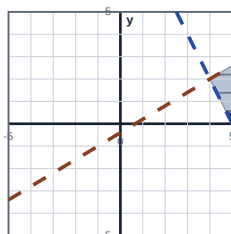
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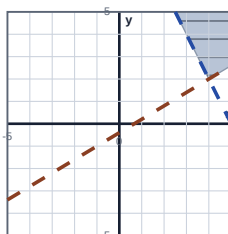
B



C



D



Each grid square = 1 unit.

1 ($<$): dashed; shade toward $(4/5, -57/25)$. 2 ($<$): dashed; shade toward $(4/5, -57/25)$.

The two shaded half-planes overlap in choice B.

Answer: B