$\qquad$

## Linear Equation Review

Solve each linear equation. Show your work.
(1) $2(x-5)-8=2019$
3) $\frac{1}{4}(x+2)-2=0.58$
4. $4 x-\frac{5-2 x}{5}=\frac{3}{5} \frac{4}{11}$

Write each repeating decimal as a fraction. Show your work.
(5) $0 . \overline{2} \frac{2}{9}$
(7) $0.2 \overline{6} \frac{4}{15}$
6. $0.93 \frac{14}{15}$
(8) $0.3 \overline{16} \frac{313}{990}$

Tell whether each equation has one solution, no solution, or an infinite number of solutions. Show your work.
(9) $2 x+4=-2\left(\frac{1}{2}-x\right)$

No solution
(11) $4 x+5=2 x-7$

One solution, $x=-6$

13
$8(x+2)=2 x+16$

One Solution $x=0$
(15) $\frac{3}{2}(2 x+6)=3 x+9$

Identity infinite Number of Solutions

14 $3+\frac{3}{2} x+4=4 x-\frac{5}{2} x$

No solution
(10) $6 y+(16-2 y)=4(4+y)$

Identity Infinite Number of Solutions
(12) $2 x+5=-4\left(-\frac{5}{4}-\frac{1}{2} x\right)$

Identity
Infinite Number of Solutions
(16) $\frac{1}{2}(2-4 x)+2 x=13$

Identity Infinite Number of Solutions

Find the value of $y$ when $x=4$.
(17) $\frac{1}{7}(3 x+y)=x \quad 16$
(18) $\frac{3 y+1}{4}=2 x 10 \frac{1}{3}$

## Complete the table of $x$ - and $y$-values for each equation.

$$
y=5(x+3)
$$

$$
20 \frac{x}{4}+y=1
$$

| $\boldsymbol{x}$ | 0 | 1 | 2 |
| :---: | :---: | :---: | :---: |
| $\boldsymbol{y}$ | $?$ | $?$ | $?$ |

15; 20; 25

| $\mathbf{x}$ | 2 | $?$ | $?$ |
| :---: | :---: | :---: | :---: |
| $\boldsymbol{y}$ | $?$ | 0 | -0.5 |$|$| $4 ; 6$ |
| :---: |
| 0.5 |

