## Solve One and Two Step Inequalities

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Maths

## Solving One and Two Step Inequalities

1. Solve these inequalities
a) $x+1<3$
b) $x-1 \leq 3$
c) $3 x \geq 6$
d) $3 x \geq-12$
d) $8>4 x$
e) $25 \geq 5 x$
f) $5 x \geq 7$
g) $5 x \geq-5-2$
2. Match the number cards with their answers.

$$
y<6.5
$$

$$
y \leq 5
$$

$$
3 y \leq 15
$$

$$
3 y<21
$$

$$
7>y
$$

$$
2 y<13
$$

3. What mistake has Ella made?

$$
\div 3\binom{3 x>-12}{x=-4} \div 3
$$

## Solving One and Two Step Inequalities

4. Solve these inequalities
a) $2 t+1<3$
b) $3 t-2 \geq 10$
c) $-12 \geq 3 t-3$
5. Max says,


Do you agree?
6. Solve for a
a) $3(a+4)+6>6$
b) $6+2(a-4)<6$
7. a) Do these inequalities have the same values for $y$ ?

$$
\begin{array}{l|l}
2 y+12 \leq 14 & 14 \geq 2(y+6)
\end{array}
$$

b) Solve for $y$

Answers

## Solving One and Two Step Inequalities

1. Solve these inequalities
a) $x+1<3$ $x<2$
b) $x-1 \leq 3$
$x \leq 4$
C) $3 x \geq 6$
d) $3 x \geq-12$
$x \geq 2$
$x \geq-4$
d) $8>4 x$ $x<2$ or $2>x$
e) $25 \geq 5 x$
$x \leq 5$ or $5 \geq x$
f) $5 x \geq 7$
g) $5 x \geq-5-2$
$x \geq \frac{7}{5}$
$x \geq-\frac{7}{5}$
2. Match the number cards with their answers.

3. What mistake has Ella made?

$$
\div 3\binom{3 x>-12}{x=-4} \div 3
$$

She used an equal sign. It should read $x>-4$

## Solving One and Two Step Inequalities

4. Solve these inequalities
a) $2 \mathrm{t}+1<3 \mathrm{t}<1$
b) $3 t-2 \geq 10 \quad$ t $\geq 4$
c) $-12 \geq 3 t-3-3 \geq t$ or $t \leq-3$
5. Max says,

$$
3 y+1<4 \text { equals } 1>y
$$

Do you agree?
Yes, they show the same thing
6. Solve for a
a) $3(a+4)+6>6 \quad a>-4$
b) $6+2(a-4)<6 a<4$
7. a) Do these inequalities have the same values for $y$ ? YES

$$
2 y+12 \leq 14 \quad 14 \geq 2(y+6)
$$

b) Solve for $y$ y 1

