Name : _____

Score : _____

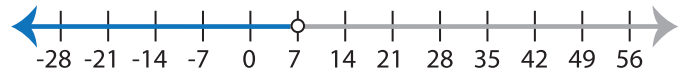## Identifying Inequalities

ES3

Choose the correct inequality that best describes each graph.
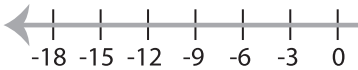
1)


```
  -12    -8    -4    0    4    8    12
```
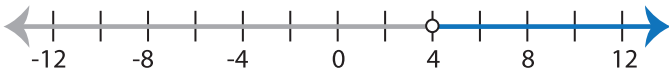
a) $\dfrac{9x-8}{2} > 14$

b) $14 \le \dfrac{9x-8}{2}$

c) $14 \ge \dfrac{9x-8}{2}$

d) $\dfrac{9x-8}{2} < 14$

2)


```
 -28 -21 -14 -7  0  7  14 21 28 35 42 49 56
```

a) $49 \le 7(3x-14)$

b) $7(3x-14) > 49$

c) $7(3x-14) < 49$

d) $49 \ge 7(3x-14)$

3)


```
 -18 -15 -12 -9 -6 -3  0
```
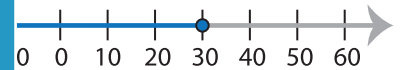
a) $4(6x-12) \le 24$

c) $24 < 4(6x-12)$

PREVIEW

Gain complete access to the largest
collection of worksheets in all subjects!
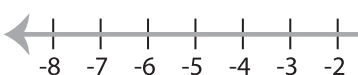
Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.
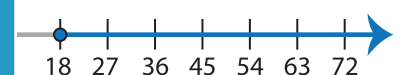
www.mathworksheets4kids.com

```
 0  0  10 20 30 40 50 60
```

b) $x - \dfrac{3x}{5} \le 12$

d) $12 > x - \dfrac{3x}{5}$

5)


```
 -8 -7 -6 -5 -4 -3 -2
```

a) $63 \ge 7(8x+1)$

c) $7(8x+1) > 63$

```
 18 27 36 45 54 63 72
```

b) $28 < x + \dfrac{5x}{9}$

d) $\dfrac{5x}{9} + x \le 28$

7)


```
 -39   -26   -13   0   13   26   39
```
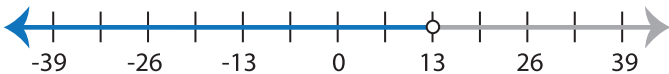
a) $\dfrac{2x+4}{10} > 3$
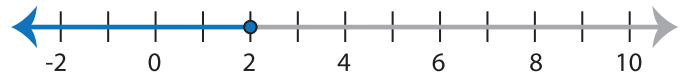
b) $3 \ge \dfrac{2x+4}{10}$

c) $3 \le \dfrac{2x+4}{10}$

d) $\dfrac{2x+4}{10} < 3$

8)


```
 -2   0   2   4   6   8   10
```

a) $13 > x - \dfrac{15x}{2}$

b) $\dfrac{15x}{2} - x \le 13$

c) $\dfrac{15x}{2} - x \ge 13$

d) $13 < x - \dfrac{15x}{2}$