METHOD 2 Using a Graph Another approach is to use a graph.
If your graphing calculator has a test feature, you can enter the inequality and evaluate its truth for various values of $x$.

- When the inequality is true, the calculator returns a 1 .
- When the inequality is false, the calculator returns a 0 .

STEP 1 Enter $y=(20+1.5 x \leq 50)$ into a graphing calculator.

Press and [TEST] 6 to enter the $\leq$ symbol.

```
Y1目(20+1.5X\leq50)
Y2=
Y3=
Y4=
Y5=
Y6=
Y
```

STEP 2 Graph the result.
The $y$-value is 1 for all $x$-values
that make the inequality true.

STEP 3 Find the point where the inequality changes from true to false by using the trace feature.

- The graph suggests that the inequality is true when $x \leq 20$. So, you can play the game at the fair 20 times or fewer.
$Y_{1}=(20+1.5 \mathrm{X} \leq 50)$
-
$X=20.212766 \quad Y=0$


## Practice

1. REASONING Determine the equation that gives the table below. For what $x$-values is $y<-500$ ?

2. GIFT You have $\$ 16.50$ to spend for a friend's birthday. You spend $\$ 3$ on a card and want to buy some chocolates that cost $\$ .75$ each. What are the numbers of chocolates you can buy? Solve using a table and using a graph.
3. SALESPERSON A salesperson has a weekly salary of $\$ 1550$ and gets a $5 \%$ commission on sales. What are the amounts the salesperson can sell to earn at least $\$ 1900$ per week? Solve using a table and using a graph.
4. Writing Explain how to use a table like the one below to solve $0.5 x-1.5 \leq 3-0.4 x$.

