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Patterning and Algebra
Unit 1 Line Master 6a

## A Day at the Fair

Darius is going to a fair for "Toonie Tuesday".
They will pay $\$ 8$ admission plus $\$ 2$ for each midway ride they take.

1. The expression $8+2 n$ shows how much Darius will pay that day.
a) What does the variable $n$ represent?
b) What does the coefficient 2 represent?
c) What does the constant 8 represent?
2. Complete the table below.

| Number of rides | Total cost (\$) |
| :---: | :---: |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

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$\qquad$

Patterning and Algebra
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## A Day at the Fair (cont'd)

3. Suppose Darius goes on 7 rides. How much will they pay?
How did you determine your answer.
4. Darius has a maximum of $\$ 30$ to spend on admission and rides.
a) Write an equation to represent this situation.
b) How could you determine how many rides Darius could take?
