

# Serious Circus Sums

## Activity

The circus has come to town. Siaosi, Nio, and Sara want to go to the show with their families. They look at the admission prices to work out the best deal.

AFTERNOON SHOW			
Number of children	Entry price	Number of adults	Entry price
1	\$5	1	\$10
2	\$8	2	\$16
3	\$11	3	\$22
4	\$14	4	\$28

CHILDREN MUST BE ACCOMPANIED BY AN ADULT.

1. a. How much would it cost for 2 children and 1 adult?  
b. How much would it cost for 4 children and 3 adults?
2. Sara works out the costs for all the members of each family to go to an afternoon show. Her family, including her little sister, would have to pay \$27, Nio's family would have to pay \$15, and Siaosi's family, which includes his grandfather as well as his parents, would have to pay \$30.  
How many adults and children are in each family?
3. Next, Siaosi, Nio, and Sara look at evening show prices:

EVENING SHOW			
Number of children	Entry price	Number of adults	Entry price
1	\$5	1	\$15
2	\$10	2	\$30
3	\$15	3	\$45
4	\$20	4	\$60

CHILDREN MUST BE ACCOMPANIED BY AN ADULT.

What would it cost each family if they decided to go to the evening show?

4.

- a. What would it cost your family to go to the afternoon show? Show how you worked out your answer.
- b. What would it cost your family to go to the evening show?

5.

Siaosi, Nio, and Sara tell their teacher, Mr Martin, about the circus.

Could we go as a class to see the circus as part of our study about people's jobs?



Mr Martin asks them to work out the cost.

There are 24 children in their class. For safety, they need to have 1 adult with them for every 4 children.

- a. How many adults would need to go with the class?
- b. Based on the prices shown, how much would it cost the group to go to the afternoon show?
- c. Is \$200 enough to get the group into the evening show? Show how you worked out the cost.

6.

What would it cost your class to go to each show at the circus?



Don't forget to include 1 adult for every 4 children.



7.

- a. What do you notice about the prices for the afternoon show?
- b. What do you notice about the prices for the evening show?

