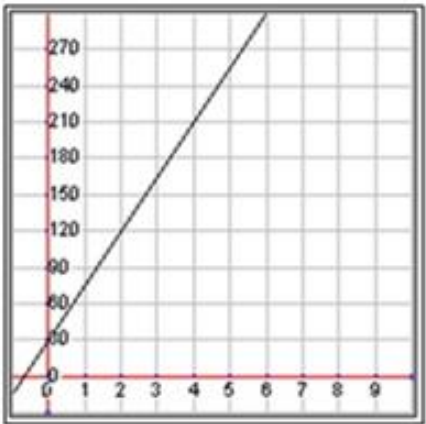


Functions 8.F.2 Pre-Test

Please do not use a calculator.

Answer the following questions comparing function equations, graphs, tables and descriptions.

Your family is deciding which activity to participate in while on your vacation in San Diego. Here is the information about the cost (c) for admission for all of your family members (f). Included in the cost is the parking fee for each.

<p>City Tour Charges \$40 per family member plus a \$20 parking fee</p>	<p>San Diego Zoo Cost is modeled by the equation $c = \frac{85}{2}f + 10$</p>												
<p>SeaWorld</p> <div style="text-align: center;">  <p style="margin-top: 10px;"><i>Family Members (f)</i></p> </div>	<p>Kayaking</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 10px;">f</td> <td style="padding: 2px 10px;">2</td> <td style="padding: 2px 10px;">4</td> <td style="padding: 2px 10px;">6</td> <td style="padding: 2px 10px;">8</td> <td style="padding: 2px 10px;">10</td> </tr> <tr> <td style="padding: 2px 10px;">c</td> <td style="padding: 2px 10px;">75</td> <td style="padding: 2px 10px;">125</td> <td style="padding: 2px 10px;">175</td> <td style="padding: 2px 10px;">225</td> <td style="padding: 2px 10px;">275</td> </tr> </table>	f	2	4	6	8	10	c	75	125	175	225	275
f	2	4	6	8	10								
c	75	125	175	225	275								

1. Which activity is the cheapest per family member, and how do you know?

2. Which activity is the most expensive per family member, and how do you know?

3. Which activity has the cheapest parking fee, and how do you know?

4. Which activity has the most expensive parking fee, and how do you know?

5. How many of your family members could you bring to each activity if you budgeted \$200?

6. Which activity allows you to bring the most people for that amount of money?

7. How much would it cost at each activity to bring a family of 4?

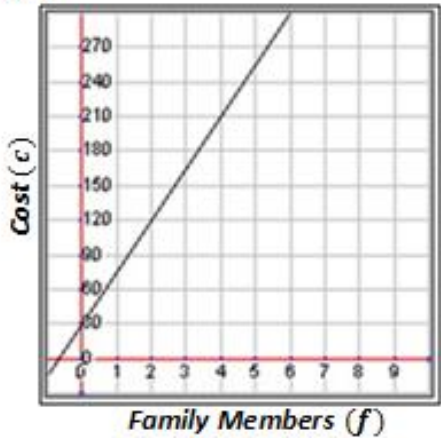
8. Which activity is the cheapest for that many people?

Functions 8.F.2 Pre-Test Answers

Please do not use a calculator.

Answer the following questions comparing function equations, graphs, tables and descriptions.

Your family is deciding which activity to participate in while on your vacation in San Diego. Here is the information about the cost (c) for admission for all of your family members (f). Included in the cost is the parking fee for each.

<p>City Tour Charges \$40 per family member plus a \$20 parking fee</p>	<p>San Diego Zoo Cost is modeled by the equation $c = \frac{85}{2}f + 10$</p>												
<p style="text-align: center;">SeaWorld</p> 	<p>Kayaking</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <tr> <td>f</td> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <td>c</td> <td>75</td> <td>125</td> <td>175</td> <td>225</td> <td>275</td> </tr> </table>	f	2	4	6	8	10	c	75	125	175	225	275
f	2	4	6	8	10								
c	75	125	175	225	275								

1. Which activity is the cheapest per family member, and how do you know?
 City Tour - \$40/family member; Zoo - \$42.50/family member; SeaWorld - \$45/family member;
Kayaking - \$25/family member
2. Which activity is the most expensive per family member, and how do you know?
 City Tour - \$40/family member; Zoo - \$42.50/family member; **SeaWorld - \$45/family member;**
 Kayaking - \$25/family member
3. Which activity has the cheapest parking fee, and how do you know?
 City Tour - \$20; **Zoo - \$10;** SeaWorld - \$30; Kayaking - \$25
4. Which activity has the most expensive parking fee, and how do you know?
 City Tour - \$20; Zoo - \$10; **SeaWorld - \$30;** Kayaking - \$25
5. How many of your family members could you bring to each activity if you budgeted \$200?
 City Tour – 4 family members; Zoo – 4 family members; SeaWorld – 3 family members;
 Kayaking – 7 family members
6. Which activity allows you to bring the most people for that amount of money?
Kayaking
7. How much would it cost at each activity to bring a family of 4?
 City Tour - \$180; Zoo - \$180; SeaWorld - \$210; Kayaking - \$125
8. Which activity is the cheapest for that many people?
Kayaking

Adapted from Eric Bright, Charleston Middle School Curriculum