Name: _____

Rate of Change and Initial Value

Find the rate of change and the initial value in each situation.

Learn: The rate of change is how much y changes for each 1 x. The initial value is y when x = 0.

Example: A taxi ride of 5 miles costs $85 and a ride of 3 miles costs $75. Find the rate of change and the initial value.

Answer: rate 5 dollars per mile, initial 60

1. A taxi ride of 9 miles costs $49 and a ride of 8 miles costs $46. Find the rate of change and the initial value.

   Answer: _____

2. After 3 weeks a plant is 96 cm and after 8 weeks it is 166 cm. Find the rate of change and the initial value.

   Answer: _____

3. A taxi ride of 4 miles costs $112 and a ride of 9 miles costs $187. Find the rate of change and the initial value.

   Answer: _____

4. A taxi ride of 8 miles costs $61 and a ride of 3 miles costs $26. Find the rate of change and the initial value.

   Answer: _____

5. A taxi ride of 4 miles costs $110 and a ride of 1 miles costs $71. Find the rate of change and the initial value.

   Answer: _____

6. After 6 weeks a plant is 98 cm and after 3 weeks it is 77 cm. Find the rate of change and the initial value.

   Answer: _____

7. After 5 weeks a plant is 85 cm and after 8 weeks it is 109 cm. Find the rate of change and the initial value.

   Answer: _____

8. A taxi ride of 2 miles costs $51 and a ride of 8 miles costs $99. Find the rate of change and the initial value.

   Answer: _____

Name: **ANSWER KEY**

Rate of Change and Initial Value

Find the rate of change and the initial value in each situation.

Learn: The rate of change is how much y changes for each 1 x. The initial value is y when x = 0.

Example: A taxi ride of 5 miles costs $85 and a ride of 3 miles costs $75. Find the rate of change and the initial value.

Answer: rate 5 dollars per mile, initial 60

1. A taxi ride of 9 miles costs $49 and a ride of 8 miles costs $46. Find the rate of change and the initial value.

Answer: rate 3 dollars per mile, initial 22

2. After 3 weeks a plant is 96 cm and after 8 weeks it is 166 cm. Find the rate of change and the initial value.

Answer: rate 14 cm per week, initia

3. A taxi ride of 4 miles costs $112 and a ride of 9 miles costs $187. Find the rate of change and the initial value.

Answer: rate 15 dollars per mile, initial 52

4. A taxi ride of 8 miles costs $61 and a ride of 3 miles costs $26. Find the rate of change and the initial value.

Answer: rate 7 dollars per mile, initi

5. A taxi ride of 4 miles costs $110 and a ride of 1 miles costs $71. Find the rate of change and the initial value.

Answer: rate 13 dollars per mile, initial 58

6. After 6 weeks a plant is 98 cm and after 3 weeks it is 77 cm. Find the rate of change and the initial value.

Answer: rate 7 cm per week, initial

7. After 5 weeks a plant is 85 cm and after 8 weeks it is 109 cm. Find the rate of change and the initial value.

Answer: rate 8 cm per week, initial 45

8. A taxi ride of 2 miles costs $51 and a ride of 8 miles costs $99. Find the rate of change and the initial value.

Answer: rate 8 dollars per mile, initi