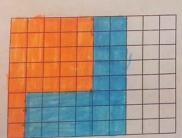
- 1 Many animals hibernate during the winter to survive the harsh
- 2 conditions and food shortages. While
- 3 they sleep, their body temperatures drop, their breathing rates
- 4 decrease, and their heart rates slow. They may
- 5 even appear to be dead. Percent can be used to describe
- 6 this kind of change. Percent change is the ratio of the
- 7 amount of change to the original amount. When finding a
- 8 percent of change, there are two numbers that will be given;
- 9 an original value and a new value.

10 percent change = $\frac{\text{amount of change}}{}$ original amount

- 11 Percent increase describes how much the original amount
- 12 increases. If the new value is larger than the original
- 13 value, then we have percent increase. Percent decrease
- 14 describes how much the original amount decreases. If the
- 15 new value is less than the original value, then we have
- 16 percent decrease.

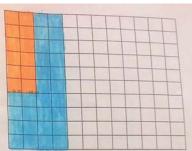


Original Value: 28

New Value: 56

The amount of change between the two values is 28

The percent of change is %. I can see this in the model because 29



Original Value: 12

New Value: 40

The amount of change between the two values is

Original Value: 18

New Value: 6

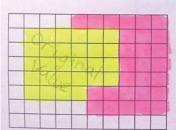
The amount of change between the two values is 12.

The percent of change is 33%. I can see this in the model because /1

- Many animals hibernate during the winter to survive the harsh
- 2 conditions and food shortages. While
- 3 they sleep, their body temperatures drop, their breathing rates
- 4 decrease, and their heart rates slow. They may
- 5 even appear to be dead. Percent can be used to describe
- 6 this kind of change. Percent change is the ratio of the
- 7 amount of change to the original amount. When finding a
- 8 percent of change, there are two numbers that will be given;
- 9 an original value and a new value.

10 percent change = amount of change original amount

- 11 Percent increase describes how much the original amount
- 12 increases. If the new value is larger than the original
 - 13 value, then we have percent increase. Percent decrease
 - 14 describes how much the original amount decreases. If the
 - 15 new value is less than the original value, then we have
 - 16 percent decrease.



Original Value: 28

New Value: 56

The amount of change between the two values is 28.

The percent of change is 100 %. I can see this in the

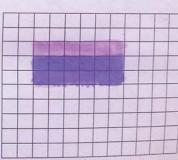
model because the original to get 56.



Original Value: 12

New Value: 40

The amount of change between the two values is 28.



Original Value: 18

New Value: 6

The amount of change between the two values is 12.

The percent of change is 67%. I can see this in the model because her ause 143 is equal to 67%.

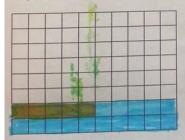
A figure has an area of 10 square units. You increase its area to 15 square units. BY what percent does the area of the figure change?



The added squares are about % of the original squares because there are added squares out of original squares.

- 1) Draw a figure that has an area of 10 square units. Let each square represent one unit. Shade the figure.
- 2) Add squares to the figure so that the area of the figure becomes 15 square units. Shade the added squares a different color.

A figure has an area of 20 square units. The area is reduced to 15 square units. By what percent does the area of the figure change?



- 1) Draw a figure that has an area of 20 square units. Let each square represent one unit. Shade the figure.
- 2) Remove squares from the figure to make if 15 units by shading over them with a different color. Shade the added squares a different color.

- 1 Many animals hibernate during the winter to survive the harsh
- 2 conditions and food shortages. While
- 3 they sleep, their body temperatures drop, their breathing rates
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- 6 this kind of change. Percent change is the ratio of the
- 7 amount of change to the original amount. When finding a
- 8 percent of change, there are two numbers that will be given;
- 9 an original value and a new value.

10 percent change = amount of change

- 11 Percent increase describes how much the original amount
- 12 increases. If the new value is larger than the original
- 13 value, then we have percent increase. Percent decrease
- 14 describes how much the original amount decreases. If the
- 15 new value is less than the original value, then we have
- 16 percent decrease.

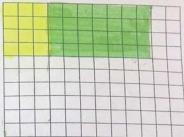


Original Value: 28

New Value: 56

The amount of change between the two values is 28.

The percent of change is %. I can see this in the model because

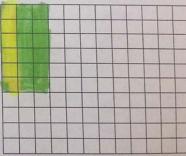


Original Value: 12

New Value: 40

The amount of change between the two values is 2

The percent of change is 253 %. I can see this in the model because Mou



Original Value: 18

New Value: 6

The amount of change between the two values is

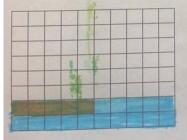
model because it when

A figure has an area of 10 square units. You increase its area to 15 square units. BY what percent does the area of the figure change?



- 1) Draw a figure that has an area of 10 square units. Let each square represent one unit. Shade the figure.
- 2) Add squares to the figure so that the area of the figure becomes 15 square units. Shade the added squares a different color.

A figure has an area of 20 square units. The area is reduced to 15 square units. By what percent does the area of the figure change?



The removed squares are about ________% of the original squares because there are ______ removed squares out of ______ original squares.

- 1) Draw a figure that has an area of 20 square units. Let each square represent one unit. Shade the figure.
- 2) Remove squares from the figure to make if 15 units by shading over them with a different color. Shade the added squares a different color.