GR3.5 GETTING READY FOR GRADE 7 GR3.5 Finding Percent of Change

ESSENTIAL QUESTION

How can you determine the percent of change and determine if it is an increase or a decrease?

EXPLORE ACTIVITY

A percent can describe an increase or a decrease in an amount that has changed. The process for finding both is the same.

Percent Change = $\frac{\text{Amount of Change}}{\text{Original Amount}}$

If the change is greater than the original amount, it is a percent increase. If the change is less than the original amount, it is a percent decrease.

The price of a video game increases from \$20 to \$25. What is the percent increase?

Find the amount of change. Amount of Change = Greater Value - Lesser Value = 25 - 20 Substitute values. $= _$ Subtract.

B Find the percent increase. Round to the nearest percent.

Percent Change = $\frac{Amount of Change}{Original Amount} = \frac{5}{20}$ Substitute values.= 0.25Divide.

= ____ Write as a percent and round.

Tanner decreased the length of his garden from 35 feet to 30 feet. What is the percent decrease?

C Find the amount of change.

Amount of Change = Greater Value – Lesser Value

= ____ – ____ Substitute values.

Subtract.

D Find the percent decrease. Round to the nearest percent.

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REFLECT

1. What is 25% of \$20? How can you use this to check that the percent increase from \$20 to \$25 is 25%?



- 2. Annie's puppy weighs 18 pounds at 6 months. At one year, her dog weighs 24 pounds. What is the percent increase? _____
- **3.** The price of a pair of pants decreases from \$45 to \$36. What is the percent decrease? _____

Guided Practice

- 1. The price of a pair of roller skates changes from \$60 to \$70. Is the change an increase or decrease? Find the amount of change. - = Percent Change = $\frac{\text{Amount of Change}}{\text{Original Amount}}$ = Substitute values. =_____ Round and write as a percent. **ESSENTIAL QUESTION CHECK-IN 2.** How do you find a percent change? **Independent Practice** Find the percent of change. Tell whether it is an increase or a decrease. **3.** Original amount: 50 **4.** Original amount: 40 **5.** Original amount: 28 New amount: 80 New amount: 35 New amount: 18 6. The price of a DVD was originally \$30. It is on sale for \$18. What is the percent change? Is it an increase or decrease?
 - 7. The cost of a painting doubles from \$40 to \$80. Predict the percent increase without calculating. Then find the actual percent increase. Does your prediction match the actual percent increase? Explain.