

1. George and Camille each bought pizza for a party. George bought 6 pizzas for \$31. Camille bought 8 pizzas for \$39. Who got the better deal on pizza? Explain.

$\frac{\text{Cost}}{\text{pizza}}$	George $\frac{\$31}{6}$ $\approx \$5.16$	Camille $\frac{\$39}{8}$ $\approx \$4.88$	Camille got the better deal b/c $\$4.88 < \5.16
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2. Megan and Zack were arguing about buying ice cream. Megan wants to buy the large bucket which is 2.5 gallons and costs \$6.98. Zack wants to buy the small containers that are 1.5 gallons and only cost \$3.98. Which ice cream is the better buy? Explain.

$\frac{\$}{\text{gal}}$	Large $\frac{\$6.98}{2.5}$ $\approx \$2.79$	Small $\frac{\$3.98}{1.5}$ $\approx \$2.65$	The small container is better b/c $\$2.65 < \2.79
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For each scenario below, identify the rate, the IV, and DV.

3. Jackson's car is parked at the airport which is 15 miles from his home. After getting off his flight, he drives home at an average speed of 30 miles per hour.

$\frac{\text{Miles}}{\text{hour}}$	→ DV. → IV.	30 mph
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4. Marta has a 6cm long candle. She lights the candle at 7 pm. After 2 hours, it was 3 cm long. How is the height of the candle changing?

$\frac{\text{cm}}{\text{hr}}$	→ DV. → IV.	$\frac{3-6}{2} = \left[\frac{-3}{2} \right]$	It lost 3cm in 2 hrs.
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5. Albert planted a tree when it was only 3 feet tall. Five years later, Albert measured the tree and found that it was 10 feet tall. How is the height of the tree changing?

$\frac{\text{ft}}{\text{yr}}$	→ DV. → IV.	$\frac{10-3}{5} = \left[\frac{7}{5} \right]$	It grew 7 ft in 5 yrs.
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6. Bobby gave his sweetheart Rebecca a box of chocolates for Valentine's day. The full box had 25 chocolates. After 6 days, Rebecca still had 7 chocolates. At what rate is the number of chocolates changing?

choc → D.V.
day → I.V.

$$\frac{7-25}{6} = \frac{-18}{6}$$

$$m = -3$$

She eats
3 chocolates
every day.

7. George's mom bought him a whole lot pencils to start the school year. After 9 weeks of school, George had 200 pencils left. After 18 weeks of school, George was down to 137 pencils. At what rate is the number of George's pencils changing?

pencils → D.V.
wk → I.V.

$$\frac{137-200}{18-9} = \frac{-63}{9}$$

$$m = -7$$

He loses 7
pencils every
week.

8. Maggie loves beanie babies. When she was 8 years old, she had 23 beanie babies. Now that she is 13, she has 88 beanie babies. At what rate is Maggie collecting beanie babies?

b. babies → D.V.
yr → I.V.

$$\frac{88-23}{13-8} = \frac{65}{5}$$

$$m = 13$$

She gets
13 beanie babies
a year.