Review Problems for Chapter 2 TEST Percent

In 2019 the drama How do we find percent change club had 62 members (increase or decrease)? Step 1: Determine start In 2018 it had 50 number and ending number. members. Find the percent change. 63 50 →62 光 From _____ to ___ Step 2: Subtract to find the difference between the two numbers Step 3: Set up and solve this proportion. 1=24 24% increase startingamount

How do we find percent error?

Step 1: Subtract to find the amount of error between estimate and actual amounts.

Step 2: Set up and solve this proportion.

amount of error

n 100 = — Sara estimated that the coin jar held 789 pennies. The actual count was 892 pennies. Find her percent error.

892-789 = 103

2100 = 103

211.547

Simple Interest

i = money earned or paidP = money invested or borrowed

r = interest rate written as a decimal

t = number of years

Step 1: Write the formula Step 2: Substitute what you know Step 3: Solve resulting

Step 3: Solve resulting equation

Jen paid \$2480 in interest on a 3 year loan for her car. If she borrowed \$12,000, what was the simple interest rate?

(Simple Interest)

i = money earned or paid P = money invested or borrowed

r = interest rate written as a decimal

t = number of years

Step 1: Write the formula

Step 2: Substitute what you know

Step 3: Solve resulting

equation

Taylor invested \$4000 at 2.5% for 6 months. How much simple interest did she earn?

Find 0.2% of 168

$$\frac{\text{part}}{\text{while}} \frac{.2}{100} = \frac{n}{168}$$

$$n = 0.336$$

125 out of what number is 28%?

$$\frac{part}{whole} \quad \frac{28}{100} = \frac{125}{n}$$

145% of what number is 32?

$$\frac{145}{100} = \frac{32}{11}$$

$$n = 22.0689$$

A car costs \$32,000. If sales tax is 5%, find the amount of tax that needs to be paid.

$$5\% \text{ of } 32000$$
 $08) \frac{100}{100} = \frac{100}{32000}$
 $100 = \frac{1000}{100}$

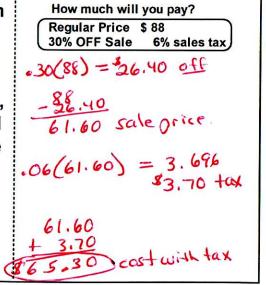
Mr. Abrams wants to leave a tip for the meal that is exactly 15%. If he leaves a tip of \$24, how much was the bill?

The regular cost of an item is \$785. It is on sale for 35% off. Find the sale price.

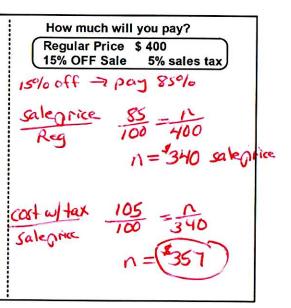
35% off
$$= 7$$
pay 65%

Sale price $= 65$
Reg $= 785$
 $= 100.25$
 $= 100.25$
 $= 100.25$
 $= 100.25$
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When an item is on sale AND you have to pay sales tax, ALWAYS find the sale price first. Then calculate the tax on the sale price.



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Favorite Colors Claude claims that no more than 30% of the people surveyed chose 5 Purple green as their favorite color. Do 17 Blue you agree or disagree? Clearly 10 Red defend why by clearly showing the 18 Green mathematics you used to come to 50 your decision. Find % that chose green n =36% I disagree claude says it's 30% or less. It is actually more than 30% Since it's 360/0 green

ESTIMATE - You are buying an item that regularly costs \$29.89. It is on sale for 30% OFF. About how much will you pay? Use mental math strategies (no calculator) but you MUST show what you did in your head.

30% off of 29.89

30% off \$30

10 off 30

10 off 30

All items are discounted more than 40%

Claude buys an item on sale for \$75. The regular price is \$120. Do you agree or disagree with the store's claim? Clearly show all mathematics you used to come to your decision.

Find the percent off 120-75 = 45 off

off A = 45

Reg 100 = 120

N = 37.5% off

I disagree 37.5% off is not

more than 40%,