Slide 1

Opener

1. A customer wants to tip 15% on a restaurant bill that is $35. What will be the total bill with tip?

2. A haircut costs $20. Sales tax is 4.75%. Is $25 sufficient to cover the haircut with tax and a 15% tip?

3. Scott wants to tip his taxicab driver 20%. If his commute costs $15, what is the total cost?

(handwritten)
$20 \times 1.0475 = 20.95$
$20.95 \times 1.15 =$
$100 + 15$
40.25 $\frac{24.09}{Yes}$
$15 \times 1.20 = \boxed{18}$
1.15×35

Feb 7-10:23 AM

Slide 2

Learning Target

I can work backwards using the percent equation to determine percent change.

Dec 11-2:36 PM

Slide 3

WHAT'S WRONG?!

12. The second week of school, Target marked down all school supplies 40%. If a binder was on sale for $2.39, what was the original price of the binder?

(handwritten)
$2.39 \times 1.4 = \$3.35$
$2.39 \div 0.60 = \$3.98$

Oct 14-10:51 AM

Slide 4

Calculating Percent of...Tax/Discount/Increase/Decrease – Anything!

Percent Equation: ORIGINAL (%) NEW   (original is one that happens first in time)

Again, we are working _____ _____ so we use _____ _____ operations. Therefore we answer compares to 100% (is it an increase or decrease and by how much).

Examples:

1. A pair of shoes was originally $39.99, but are on sale for $29.99. What is the percent of discount? $= 25\%$

(handwritten)
$39.99 \times \% = 29.99$
$29.99 \div 39.99 = 0.75 \%$
75%
$100 - 75 = 25\%$

① fill in equation
② divide
③ move dec 2 places right
④ compare to 100%

Jun 16-9:37 AM

Slide 5

2. Last year 247 students attended the first home football game. This year, 295 attended. What is the percent increase in attendance? $= 19\%$

(handwritten)
$247 \times \% = 295$
$295 \div 247 = 1.19$ 119%

3. I bought a pair of boots on Black Friday for $39.99. The boots were originally $129.99. What is the percent of discount?
$129.99 \times \% = 39.99$
$39.99 \div 129.99 = 0.31$ $\boxed{69\% \text{ disc}}$ $100 - 31$

4. Last year 762 students went to the Back to School and Halloween dances. This year only 645 students attended the two dances. What is the percent of decrease?
$762 \times \% = 645$
0.85 $\frac{100}{-85}$ $\boxed{15\%}$

Dec 11-2:36 PM

Slide 6

5. The Hotel Transylvania DVD is regularly $19.99 but is on sale for $11.99. What is the percent of discount??
$19.99 \times \% = 11.99$
$11.99 \div 19.99 = 0.60$ 60% $\frac{100}{-60}$ 40

6. Lilly bought a flat iron that was on sale for $98.99. If the flat iron was originally $144.99, what was the percent of discount?
$144.99 \times \% = 98.99$
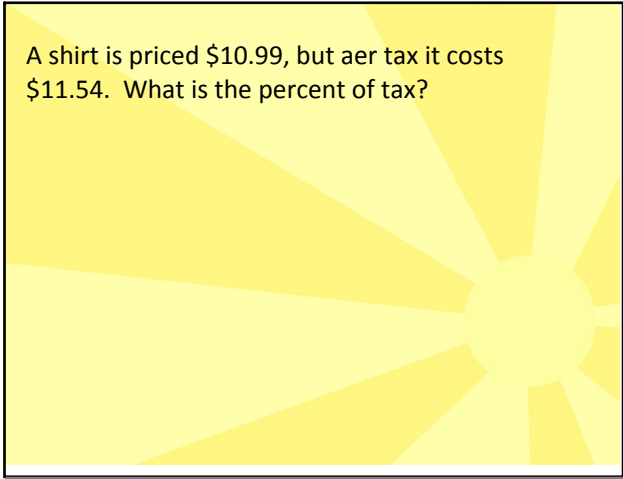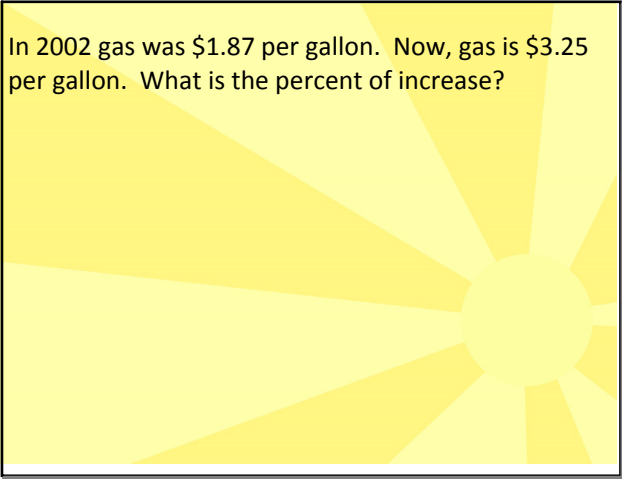$98.99 \div 144.99 = 0.68$
$100 - 68 = 32$ $.68$
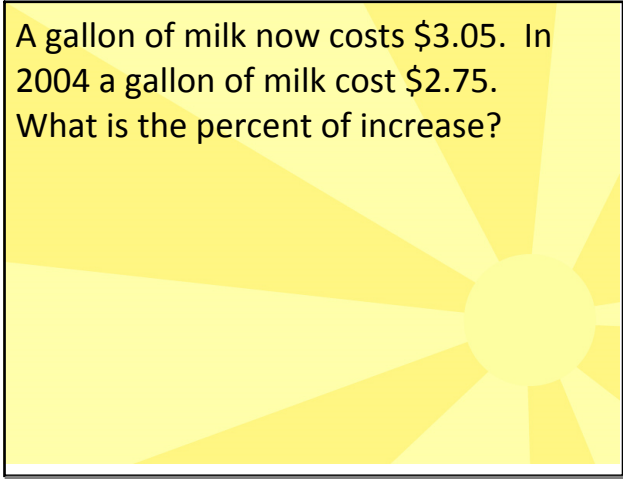
Dec 11-2:36 PM

Table Challenge

Jun 16-9:38 AM

A shirt is priced $10.99, but aer tax it costs $11.54. What is the percent of tax?

Jun 16-9:40 AM

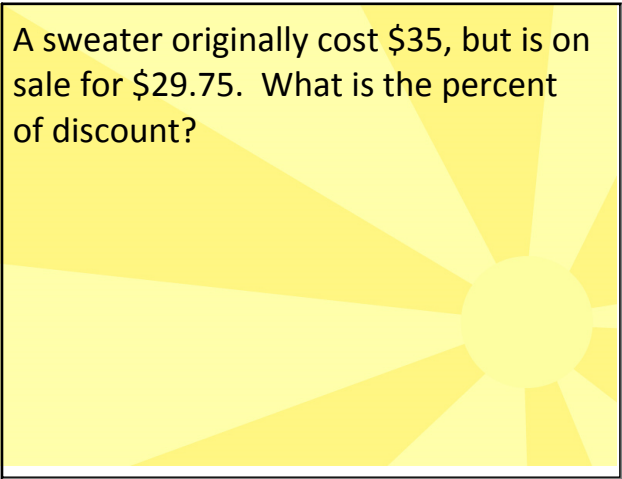In 2002 gas was $1.87 per gallon. Now, gas is $3.25 per gallon. What is the percent of increase?
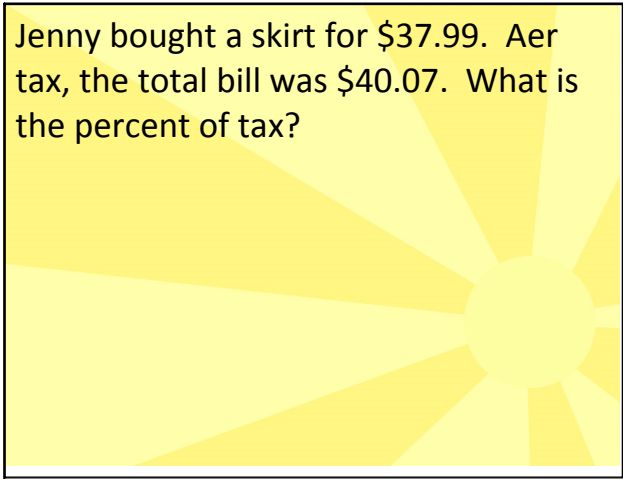
Jun 16-9:41 AM

A gallon of milk now costs $3.05. In 2004 a gallon of milk cost $2.75. What is the percent of increase?

Jun 16-9:41 AM

A sweater originally cost $35, but is on sale for $29.75. What is the percent of discount?

Jun 16-9:41 AM

Jenny bought a skirt for $37.99. Aer tax, the total bill was $40.07. What is the percent of tax?

Jun 16-9:42 AM

Aer a 20% discount, a DVD costs $14.39. What was the original price of the DVD?

Jun 16-9:42 AM

Mr. Holland paid received a 30% discount off of a new copier priced $3500. How much did Mr. Holland have to pay for the copier?

Jun 16-9:42 AM

A shirt costs $20, and after tax is costs $21. What is the percent of tax?

Dec 11-2:36 PM

Summary

How can you tell if the percent you get when you work backwards is an increase or a decrease?

Oct 13-12:19 PM

Oct 13-12:19 PM

Oct 13-12:19 PM