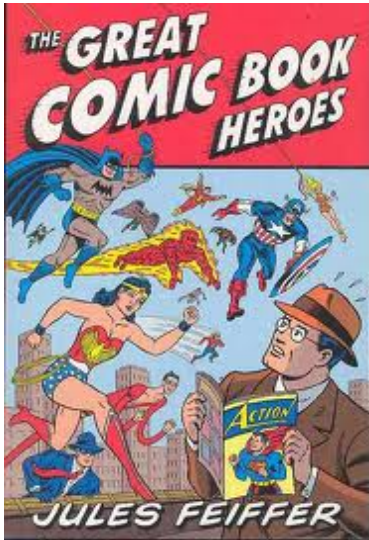


Warm Up



Cynthia purchases an order of 425 comic books for \$700.00. She plans to mark the price up by 90%. What will she charge her customers for one comic book?



Cynthia purchases an order of 425 comic books for \$700.00. She plans to mark the price up by 90%. What will she charge her customers for one comic book?

Unit Price:

$$\frac{\$700}{425} = \$1.65/\text{comic}$$

Markup:

$$\begin{array}{r} \$1.65 \times 0.90 \\ \$1.49 \end{array} \quad \begin{array}{r} 1.65 \times 1.90 \\ = \$3.14 \end{array}$$

Selling Price:

$$\begin{array}{r} \$1.65 \\ +1.49 \\ \hline \$3.14 \end{array}$$

The selling price is \$3.14.



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Walmart  **3 DAYS OF WEEKEND**

savings

FRIDAY TO SUNDAY! SEPTEMBER 9th-11th, 2011

HomeStyles
FIELDCREST

ALL HOMESTYLES™ & FIELDCREST® BED-IN-A-BAG SETS SAVE 50%

PLUS! Be sure to check out our week-long flyer!
See inside.

HomeStyles
SAVE 60%
MATTRESS, PAD, PROTECTOR

ALL HOMESTYLES™ WATERPROOF MATTRESS PADS
Reg. 44.97-56.97 Monday - Thursday ... SAVE 30%*

FIELDCREST HomeStyles
ALFRED SUNG HOME

BUY 1, GET 1 FREE†

ALL HOMESTYLES™ REGULAR AND OVERSIZED BED-IN-A-BAG SETS OR FIELDCREST® OVERSIZED BED-IN-A-BAG SETS
Regular Sizes Double, Queen or King. Oversized Sizes Queen or King
Reg. 139.97-199.97 ... **83.98-119.98**

ALL ALFRED SUNG HOME™, FIELDCREST® AND HOMESTYLES™ FASHION BATHROOM ACCESSORIES Reg. 6.97-46.98

Jonas needs to buy a new winter jacket. He has waited for a sale, and a jacket that originally cost \$249.95 is now discounted 20%. How much will the jacket cost?

This Way:

Focus...

How much is taken off?

$$\begin{aligned} \star & \$249.95 \times 0.20 \\ & = \$49.99 \end{aligned}$$

$$\begin{aligned} \star & \$249.95 - \$49.99 \\ & = \$199.96 \end{aligned}$$



That way:

Focus...

How much do you still
have to pay?

$$\begin{aligned} \star & \$249.95 \times 0.80 \\ & = \$199.96 \end{aligned}$$



Which of the following is the best deal for a new 1TB hard drive that regularly costs \$109.99 in Saskatchewan, where GST is 5% and PST is 5%? Which is the worst?



Sale Option	Discount
i	20% off
ii	85% of the regular price
iii	Dont pay the tax!
iv	1/4 off the regular price

15%
11%
25%

Sale Option	Discount
i	20% off
ii	85% of the regular price
iii	Dont pay the tax!
iv	1/4 off the regular price



DISCOUNT → Sale "i"
 $109.99 \times 0.80 = \mathbf{\$87.99}$
OR
 $109.99 \times 0.20 = \$22.00$
 $109.99 - 22.00 = \mathbf{\$88.00}$
TAX → $87.99 \times 1.05 = 92.40$
 $92.40 \times 1.05 = \mathbf{\$97.02}$

DISCOUNT → Sale "ii"
 $109.99 \times 0.85 = \mathbf{\$93.49}$
TAX → $93.49 \times 1.05 = 97.70$
 $97.70 \times 1.05 = \mathbf{\$102.59}$

Sale "iii"
 → $\mathbf{\$109.99}$

DISCOUNT → Sale "iv"
 $109.99 \times 0.75 = \$82.49$
TAX → $82.49 \times 1.05 = \$86.61$
 $86.61 \times 1.05 = \mathbf{\$90.94}$

What percent did you pay?

$$\frac{\text{Amount Paid}}{\text{Total Amount(org.)}}$$

$$\star \frac{\$76.49}{\$89.99} = 0.85 \quad \mathbf{85\%}$$

\$76.49 Sale Price



\$89.99
Regular Price

What percent did you save?



$$\begin{array}{r} \$89.99 \\ -\$76.49 \\ \hline \$13.50 \end{array}$$

\$89.99 Regular Price
\$76.49 Sale Price

$$\frac{\text{Amount saved}}{\text{Total Amount(org.)}}$$

$$\star \frac{\$13.50}{\$89.99} = 0.15$$

$$\star \mathbf{15\%}$$

You Try!!

1. The cost of a new sledge hammer is \$42.99. It is on sale for \$32.24. What percent would you now have to pay?



2. Towel are on sale at a department store. The advertisement says, "Buy one, get one 50% off !" The regular price of a towel is \$21.99.
- a) If you buy 4 towels, how much will it cost? (Don't include tax)
- b) What is the percent did you actually saved?



1. The cost of a new sledge hammer is \$42.99. It is on sale for \$32.24. What percent would you know have to pay?

$$\frac{\text{Amount Paid}}{\text{Total Amount(org.)}}$$

$$= \frac{32.24}{42.99}$$

$$= 0.75$$

$$= 75\%$$



2. Towel are on sale at a department store. The advertisement says, "Buy one, get one 50% off !" The regular price of a towel is \$21.99.



- a) If you buy 4 towels, how much will it cost? (Don't include tax)
 b) What is the percent you actually saved?

Regular Price Paid

$$\Rightarrow 21.99 \times 4 = \mathbf{\$87.96}$$

Sale on 2nd Towel

$$\Rightarrow 21.99 \times 0.50 = \mathbf{\$11.00}$$

Total Price Paid

$$\begin{array}{r} 21.99 \\ + 11.00 \\ 21.99 \\ 11.00 \\ \hline = \mathbf{\$65.98} \end{array}$$

Percent Saved

$\frac{\text{Amount saved}}{\text{Total Amount(org.)}}$

$$\Rightarrow 87.96 - 65.98 = \mathbf{\$21.98}$$

$$\frac{\mathbf{21.98}}{\mathbf{87.96}} = \mathbf{\%25}$$



Page 37 Questions 1 to 7.

furnishings.

1. A supermarket regularly charges \$5.89 for a package of pizza snacks. During a sale, the supermarket offers this promotion: "Buy one at the regular price, get a second one for half price."
 - a) If Marylyn buys two packages, what will she pay?
 - b) Approximately what percent does Marylyn save during this sale? Explain your reasoning.
2. Rémy works at a sports store in Moncton, NB, where the price of a best-selling tennis racquet is \$49.95. His friend Alain works at a competitor's store where the regular price of a similar tennis racquet is \$55.95, but it is on sale at 15% off. Alain says his store offers the best price.
 - a) Calculate the total price of the tennis racquet at each store, including HST.
 - b) Is Alain right? Explain why or why not.
3. A hairstylist at Top Cuts is preparing a discount offer. The regular cost of highlighting is \$55.00. To attract more customers early in the day, he offers 15% off for appointments before 10:00 am. Mid-afternoon is also a slow time on Wednesdays and Thursdays, so he offers \$5.00 off coupons for appointments made during those times.
 - a) Which appointment time will get you the lowest price?
 - b) Which promotion do you think will appeal to more



4. A roofer in Deer Lake, NL, buys metal roofing at a builder's discount of 20% off the retail price of \$27.50 per square metre. If the roof of your house is 74 square metres and the roofer passes on 50% of the discount he receives to you, how much will you pay for the materials? If his usual hourly rate for labour is \$36.00 and he gives you a 5% discount, how much will you save in labour costs if the job takes 16 hours? Omit the taxes in your calculations.
5. Pole mount industrial fans are on sale at two wholesalers in Sydney, NS. An electrician needs 20 fans for installation in an office building. The sale price at the first store is 5% off the regular price of \$157.00. The price at the second store is \$165.00 each, but \$149.00 for 10 or more. HST applies.
- Calculate the total cost of 20 fans at each store.
 - Which wholesaler offers a better buy?
6. Drumdancer Arts and Crafts Shop is located in Happy Valley-Goose Bay, NL. The shop was opened to promote and develop Aboriginal arts, culture, and crafts. The shop has the following items on sale:
- A print of an Inuit *tupiq*, or skin tent, that was \$31.99 is marked down to \$19.99.
 - A CD featuring throat singers Tama Fost and Jennie Williams that was \$24.95 is marked down to \$21.99.
 - A small replica of a bow drill that was \$49.99 is marked down to \$24.99.
- Calculate what percentage of markdown each item has been given.
 - If a customer bought all 3 items, how much would he or she save in total? On which item would the customer save the most?