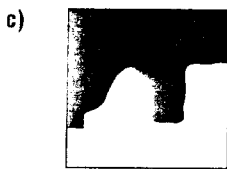
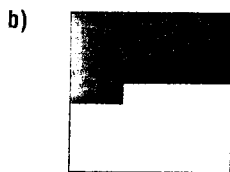
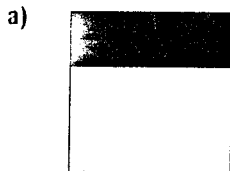


Working with Mathematics

Something to talk about

1. Explain the meaning of the statement, "A standard tip for a waiter is about 15%."
2. Find each percent. Explain how you reached your answer.
 - a) 75% of 1000 b) 80% of 10
 - c) 25% of 40 d) 60% of 3
3. Estimate the percent of each square that is shaded.

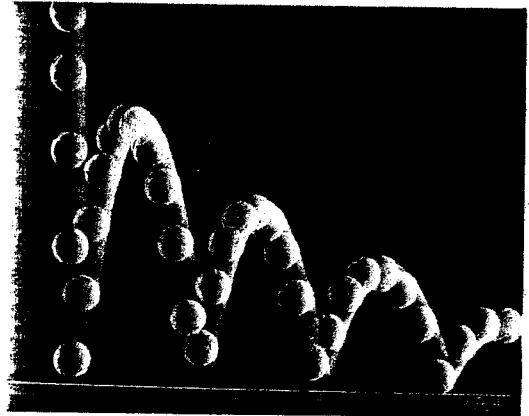


4. A photograph is enlarged. The area of the enlargement is 50% greater than the area of the original. What is the area of the enlargement as a percent of the original area?



Work together

5. Calculate each percent.
 - a) 40% of 80 b) 60% of 5
 - c) 16% of 72 d) 0.4% of 1000
 - e) 125% of 150 f) 8% of 123 000
6. A can of tennis balls has a regular price of \$5.60. It is on sale for 30% off. What is the sale price of the can of tennis balls?



7. In all of Shakespeare's works, he used 31 534 different words. Of these, 14 356 were used only once. What percent of the words did he use only once? Give the answer to one decimal place.
8. Express each reduction as a percent of the original price. Give the answers to one decimal place where necessary.
 - a) A TV regularly priced at \$540 is selling for \$499.
 - b) An overcoat regularly priced at \$195 is selling for \$156.

On your own

9. A ten-speed bicycle regularly sells for \$254.95. What will it cost during a "20% off" sale?
10. A CD sells for \$18.95. What is the sales tax on it in a province with a sales tax of 8%?

Shopping Problems Anyone?

Solve on lined paper with a full solution and final statement as a sentence.

A. Calculate a) PST, b) GST and c) PURCHASE PRICE for each item below.



1. BEATLES CD Retail price is \$15.00.



2. MOUNTAIN BIKE Retail price is \$ 349.50.

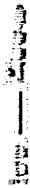


3. ICE SKATES Retail price is \$ 225.00

B. Calculate :

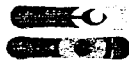
a) the AMOUNT OF DISCOUNT b) SALE PRICE and c) PURCHASE PRICE.

HOME THATRE Retail price is \$ 400.00.



On Sale for 30% OFF

1.



2 SNOWBAORDS Retail Price \$ 2700 each.

Really Early Season Sale.!!!
Buy two get the 2nd one for one-third OFF.

2.



CORVETTE Retail Price is \$ 75,000.

3.

SPECIAL PRICE 15% discount!



LEAF JERSEY Retail price \$ 150.00

ON SALE FOR \$30 OFF

C. Calculate the DISCOUNT RATE for each item purchased.



Mountain Bike Retail Price is \$ 250.00.
Sale Price is \$ 200.00

1.



EMINEM CD Retail Price is \$ 19.99.
Sale Price is \$ 9.99

2.



BASEBALL GLOVE Retail Price \$ 75.00
Sale Price \$ 50.00

3.



BRITNEY CD Retail Price \$ 12.95
Sale Price \$ 9.50

4.

D. HOMEWORK

Go online and create one problem like in section A, B and C for a total of three problems. Give all details like the examples above including pictures! Make them fit on one page only and make sure the page has a title with YOUR NAME.

AND.....solve them as well on lined paper.

Make 2 prints for class. Hand one in to me tomorrow.

MPM 1DO

Shopping and Percents

- P.S.T** – Provincial Sales Tax is 8%
- G.S.T** - Goods and Services Sales Tax is 5 %
- Purchase Price** - price of an item with taxes added on
- Retail Price** - the original price of an item before any discounts
- Amount of discount** - an amount subtracted from the retail price
- Sale Price** - price of an item after discount has been subtracted from the retail price
- Discount Rate** - a percentage of the retail price that is subtracted from the retail price to find the sale price

Formulas to know:

* Price is the Retail price unless there is a discount in which case it would be the Sale Price.

A. $\text{Sale Price} = \text{Retail Price} - \text{Amount of discount}$

B. $\text{Amount of discount} = (\text{Retail Price})(\text{Discount Rate})$ or
 $\text{Retail price} - \text{Sale Price}$

C. $\text{P.S.T.} = (\text{Price})(0.08)$ and $\text{G.S.T} = (\text{Price})(0.05)$

D. $\text{Purchase Price} = * \text{Price} + \text{PST} + \text{GST}$ or
 $\text{Purchase Price} = (* \text{Price})(1.14)$

E. $\text{Discount Rate} = \frac{\text{amountofdiscount}}{\text{retailprice}} \times 100$

Use these definitions and formulas to answer the problems.