

1.6 Calculating HST

Focus: calculating percent, calculating tax

Warm Up

1. Write each percent as a decimal.

a) $35\% =$ _____

b) $15\% =$ _____

c) $8\% =$ _____

d) $7\% =$ _____

2. In math, the word "of" means

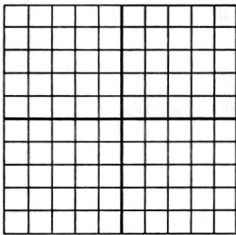
Calculate.

a) 10% of $18.00 =$ _____

b) 30% of $\$25.00 =$ _____

c) 50% of $\$13.00 =$ _____

3.



a) How many squares are shaded on the hundreds chart shown?

b) What percent of the chart is shaded?

c) What fraction of the chart is shaded?

4. Estimate 15% of $\$28.99$ by following the steps:

a) Round $\$28.99$ to the nearest dollar.

b) Find 10% of the rounded amount. _____

c) Find 5% of the rounded amount. _____

d) Add b) and c).

5. Estimate 15% of each amount.

a) $\$63.99$

b) $\$75.40$

6. Evaluate.

a) $\begin{array}{r} \$6.84 \\ + \$1.03 \\ \hline \end{array}$ **b)** $\begin{array}{r} \$4.20 \\ + \$0.63 \\ \hline \end{array}$

c) $\begin{array}{r} \$32.40 \\ + \$4.86 \\ \hline \end{array}$ **d)** $\begin{array}{r} \$48.99 \\ - \$7.35 \\ \hline \end{array}$

Estimating and Calculating HST

- You have \$30 to spend at the store.
- 1.** You know you cannot buy anything that costs \$30.00 because of the tax that will be added to the price. Circle 5 items listed below that you think you could afford to buy.

Record any purchases you make today in your spending journal on page 5.

DVD	\$26.20	Sweatshirt.....	\$27.99
Webcam	\$24.00	T-shirt.....	\$23.10
CD.....	\$25.20	Jeans.....	\$29.85
Video game	\$28.50	Jacket.....	\$27.10



- 2.** In the following table, record each item you circled. Estimate the amount of HST for each item.

Item	Price	Rounded Price	Estimated HST
a)			
b)			
c)			
d)			
e)			

- 3.** Which is the most expensive item you could afford to buy, based on your estimates?

- In Ontario, to determine the total cost of an item, you need to add the HST to the price.

Example

A T-shirt costs \$12.99.

Calculate the HST you would pay. Then, calculate the total cost.

Solution

Assuming the HST rate is 13%, calculate the tax using one of the following expressions

- 12.99×0.13
- $12.99 \times 13 \div 100$
- $12.99 \times 13\%$

Your calculator should display 1.6887. Round the HST to \$1.69.

The total cost of the T-shirt is $\$12.99 + \$1.69 = \$14.68$.

4. List the items you chose in #1 in the table below.
- Calculate the amount of tax on each item.
 - Calculate the total price of the item.
 - Is the price of the item less than \$30 or greater than \$30?

Item	Price	HST	Total Price	Under/Over \$30?
a)				UNDER OVER
b)				UNDER OVER
c)				UNDER OVER
d)				UNDER OVER
e)				UNDER OVER

Name _____

- You have \$50.00 cash to spend.
5. a) You decide to buy 2 T-shirts, each for \$12.89.
Calculate the total price, including tax.

b) If you give the cashier \$50.00, how much change should you receive?

c) Draw the coins and bills you might receive.

✓ Check Your Understanding

Go back to #9 on page 22. Check your estimates in the table by calculating the tax.

Original Price	Estimated HST	Calculated HST
a)		
b)		
c)		
d)		

Which estimate is closest? Why?
