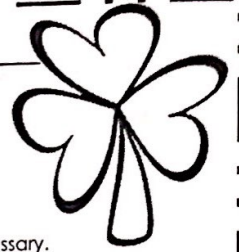


Name \_\_\_\_\_

Date \_\_\_\_\_

# Percent of a Number



**BIG IDEA: I CAN FIND THE PERCENT OF A NUMBER.**

Re-write each problem as a multiplication or division problem and solve. Round your answers to the nearest hundredth if necessary.

1) What is 42% of 86?

---

---

2) What is 36% of 115?

---

---

3) What is 4% of 18?

---

---

4) What is 110% of 140?

---

---

5) 112 is 70% of what number?

---

---

6) 12 is 60% of what number?

---

---

7) If you answered 18 questions correct on a 30 question test, what is your score?

---

---

8) If you answered 65 questions correct on a 75 question test, what is your score?

---

---

9) Explain why you must convert a percent to a decimal when you are finding the percent of a number.

---

---

---

---

---

10) Carrie is asked to find 105% of 90. She sets up her problem as  $0.105 \times 90$ . Is she correct?

\_\_\_\_\_

Explain why or why not.

---

---

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Name \_\_\_\_\_

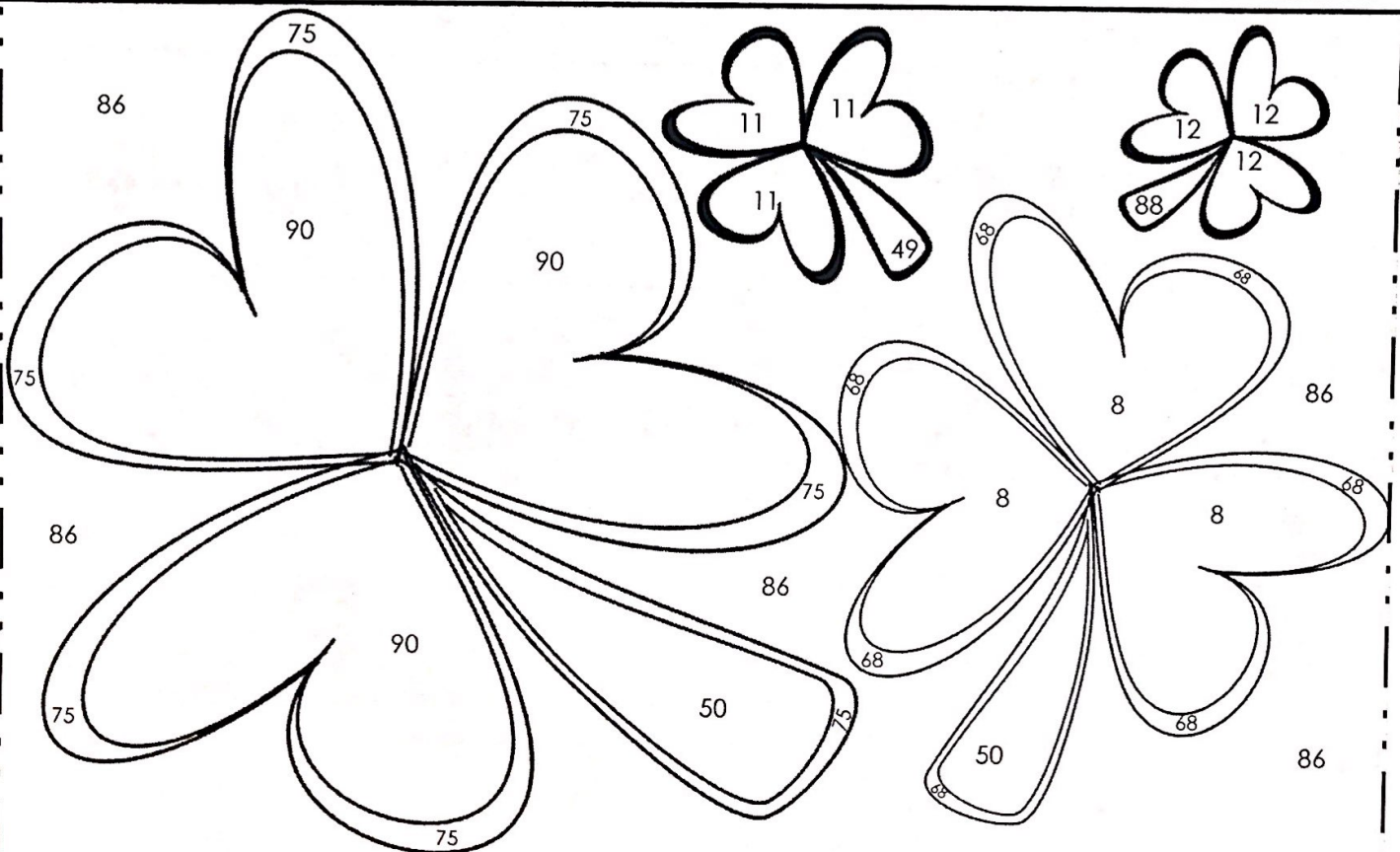
Date \_\_\_\_\_

# Percent of a Number

**BIG IDEA: I CAN FIND THE PERCENT OF A NUMBER.**

**PRACTICE:** Solve each problem. Find your answer on the picture and color it according to the color listed by your answer. Round to the nearest whole number.

What is 81% of 60?	RED	34.4 is 40% of what number?	WHITE
What is 75% of 90?	BLUE	80 is 160% of what number?	BLACK
What is 150% of 60?	GREEN	48 is 64% of what number?	BROWN
What is 4% of 212?	YELLOW	30 is 250% of what number?	ORANGE
What is 40% of 27?	PURPLE	13.2 is 15% of what number?	PINK



Name \_\_\_\_\_

Date \_\_\_\_\_

# Percent Change



**BIG IDEA: I CAN CALCULATE PERCENT CHANGE.**

1) Find the percent change. Round to the nearest hundredth if necessary.

874 to 500

---

2) Find the percent change. Round to the nearest tenth if necessary.

240 to 100

---

3) Find the percent change. Round to the nearest hundredth if necessary.

99 to 110

---

4) Find the percent change. Round to the nearest whole number.

340 to 290

---

5) Find the percent change. Round to the nearest whole number.

8 to 11

---

6) Find the percent change. Round to the nearest hundredth if necessary.

1,200 to 1,400

---

7) Find the percent change. Round to the nearest tenth if necessary.

734 to 702

---

8) Find the percent change. Round to the nearest tenth if necessary.

2,876 to 3,000

---

9) Find the percent change. Round to the nearest hundredth if necessary.

356 to 200

---

10) Find the percent change. Round to the nearest whole number.

43 to 50

---

11) Find the percent change. Round to the nearest hundredth if necessary.

96 to 80

---

12) Find the percent change. Round to the nearest tenth if necessary.

840 to 900

---

Name \_\_\_\_\_

Date \_\_\_\_\_

# Percent Change



**BIG IDEA: I CAN CALCULATE PERCENT CHANGE.**

Read each problem carefully. Round your answers to the nearest hundredth if necessary.

1) The price of a green couch was \$800. It is now on sale for \$540. What is the percent change in the cost of the couch?

---

2) There were 230 leprechauns in school this year. Last year there were 175 leprechauns. What is the percent change in the number of leprechauns?

---

3) Hank found 220 pots of gold last week. This week he found 250. What is the percent change in number of pots of gold he found?

---

4) A shamrock bouquet was on sale for \$14. Now the cost is \$18. What is the percent change in the cost?

---

5) 400 people attended a play yesterday. Today 520 people are attending. What is the percent change in the number of people attending the play?

---

6) The King family is building a home. They were going to spend \$420,000 but have decided to spend \$370,000 instead. What is the percent change in the cost of the house?

---

7) Emma sold 52 boxes of Shamrock Snacks last year. This year she has sold 240 boxes. What is the percent change in the number of boxes she sold?

---

8) The price of a green go-kart was \$1,800. It is now on sale for \$1,300. What is the percent change in the cost of the go-kart?

---

9) Explain why the percent change from 70 to 50 is not the same as the change from 50 to 70.

---

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10) Is it possible to have a percent change that is a negative number?

---

Explain:

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Name \_\_\_\_\_

Date \_\_\_\_\_

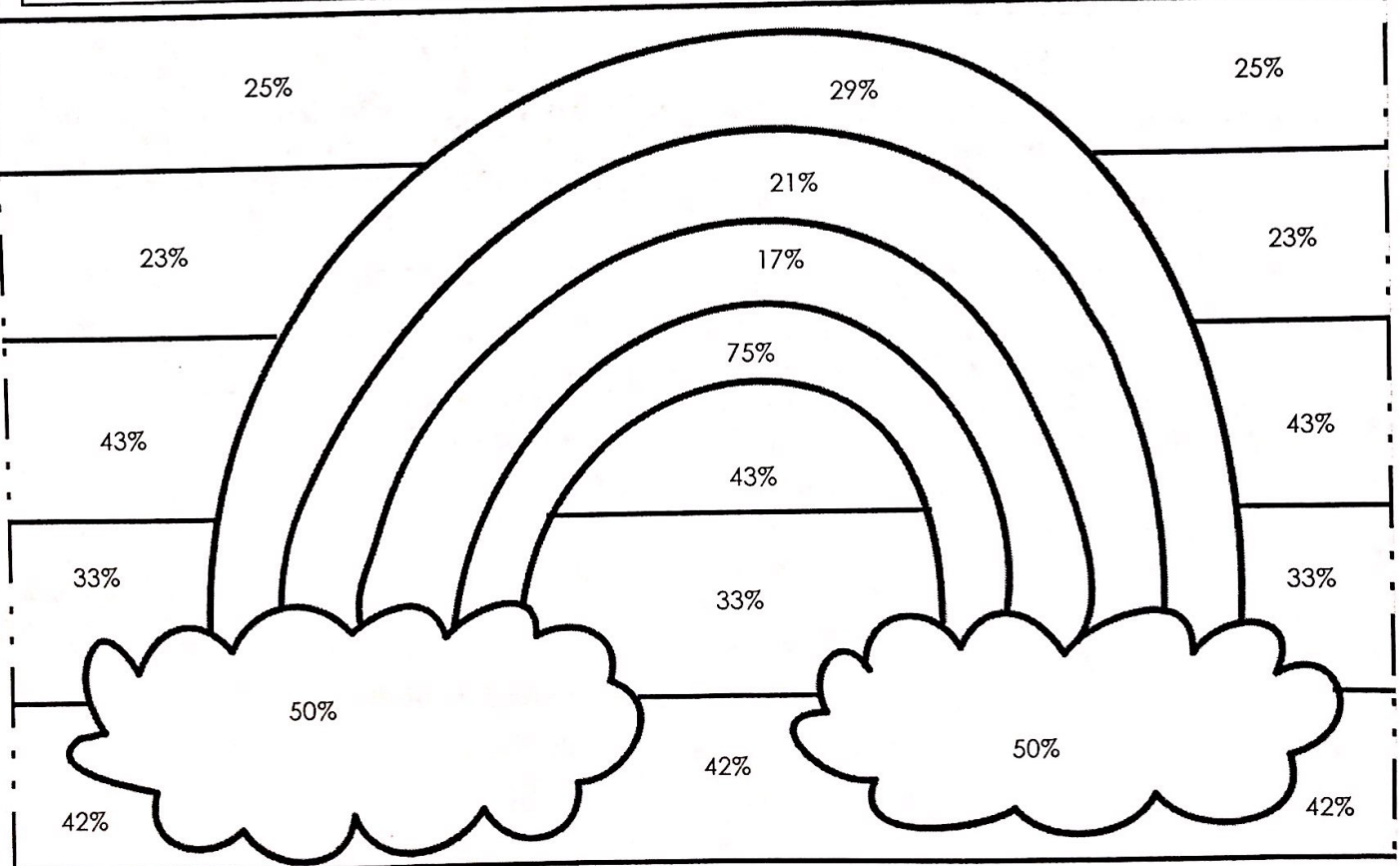


# Percent Change

**BIG IDEA: I CAN CALCULATE PERCENT CHANGE.**

**PRACTICE:** Calculate the percent change. Find your answer on the picture and color it according to the color listed by your answer. Round to the nearest whole percent.

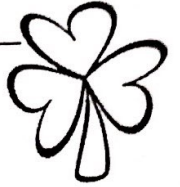
Was : \$45 Is : \$30	RED	Was : \$175 Is : \$100	WHITE
Was : \$80 Is : \$120	BLUE	Was : \$12 Is : \$7	BLACK
Was : 600 Is : 450	GREEN	Was : 1,550 Is : 1,200	BROWN
Was : 1,200 Is : 1,550	YELLOW	Was : \$75 Is : \$62	ORANGE
Was : \$62 Is : \$75	PURPLE	Was : \$100 Is : \$175	PINK



Name \_\_\_\_\_

Date \_\_\_\_\_

# Percent Discount



**BIG IDEA: I CAN FIND DISCOUNT AMOUNTS AND DISCOUNTED PRICES.**

Read each problem carefully. Round your answers to the nearest hundredth if necessary.

1) A \$150 bag of gold is discounted 12%. How much money is saved?

\_\_\_\_\_

2) A leprechaun counted 823 pieces of gold. He gave away 40%. How many pieces did he give away?

\_\_\_\_\_

3) Lex the lion weighed 478 pounds. He lost 6% of his weight. How much does Lex weigh now?

\_\_\_\_\_

4) A pack of green socks was \$4.50. It is on sale for 30% off. What is the new price?

\_\_\_\_\_

5) Jim bought \$50.80 worth of candy. He had a coupon for 18% off. How much did Jim pay?

\_\_\_\_\_

6) Four theme park tickets cost \$85 each. The fifth ticket is 40% off. How much is spent on all five tickets??

\_\_\_\_\_

7) A \$999 treadmill is discounted 15%. How much money is saved?

\_\_\_\_\_

8) A television costs \$1,275. It is discounted 10%. A week later, it is discounted another 10%. What is the new cost?

\_\_\_\_\_

9) Taryn's pot of gold weighed 35 pounds. She took out 62% of the gold. How much gold is left?

\_\_\_\_\_

10) Ella ran 130 miles last month. This month her miles decreased by 20%. How many fewer miles did she run this month?

\_\_\_\_\_

11) Pat made \$80 at work yesterday. Today he made 12% less. How much did he make today?

\_\_\_\_\_

12) Kim planted 420 square feet of shamrocks. 18% of them didn't grow. How many square feet didn't grow?

\_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

# Percent Discount



**BIG IDEA: I CAN FIND DISCOUNT AMOUNTS AND DISCOUNTED PRICES.**

Read each problem carefully. Round your answers to the nearest hundredth if necessary.

1) What is the new price?



\_\_\_\_\_

2) How much is saved?



\_\_\_\_\_

3) What is the new price?



\_\_\_\_\_

4) What is the new price?



\_\_\_\_\_

5) How much is saved?



\_\_\_\_\_

6) What is the new price?



\_\_\_\_\_

9) A pair of shoes is \$86. They are discounted 15%. You have a 10% coupon. How much do you save? Explain.

\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_

10) If a \$50 game was discounted 5% and then an additional 5% a week later, was the total discount 10%?

\_\_\_\_\_  
Explain:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

# Percent Discount



**BIG IDEA:** I CAN FIND DISCOUNT AMOUNTS AND DISCOUNTED PRICES.

**PRACTICE:** Solve each problem. Find your answer on the picture and color it according to the color listed by your answer. Round to the nearest whole number

Was \$86. On sale for 15% off. What is the new price?	RED	Was \$308. On sale for 60% off. What is the new price?	WHITE
Was \$400. On sale for 30% off. How much is saved?	BLUE	Was \$240. On sale for 12% off. How much is saved?	BLACK
Was \$142. On sale for 20% off. What is the new price?	GREEN	Was \$300. On sale for 10% off. What is the new price?	BROWN
Was \$115. On sale for 25% off. What is the new price?	YELLOW	Was \$32. On sale for 40% off. How much is saved?	ORANGE
Was \$218. On sale for 15% off. How much is saved?	PURPLE	Was \$40. On sale for 6% off. What is the new price?	PINK


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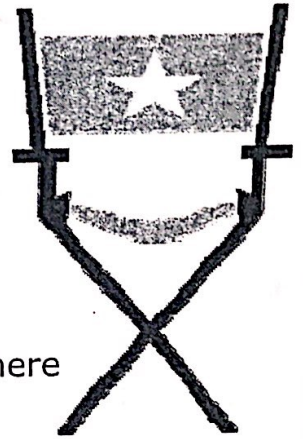
Name \_\_\_\_\_

Date \_\_\_\_\_

### Markups and Markdowns Word Problems - Independent Practice Worksheet

Solve problems below:

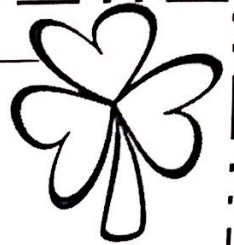
- 1) A painting is on sale at 50% off. The sale price is \$320. What was the original price?
- 2) Fred buys a video game disk for \$4. There was a discount of 20%. What is the sales price?
- 3) A boat is marked up 20% on the original price. The original price was \$50. What is the sale price of the boat before sales tax?
- 4) A football is selling for 35% off the original price. The original price was \$60. What is the sale price of the football?
- 5) Timmy wants to buy a scooter and the price was \$50. When he goes to the store a second time, he found that price was marked down by 20%. What is the new price?
- 6) Andrew paid \$10 for a burger. The burgers went on sale and there was a discount of 20%. What was the sale price of the burgers?
- 7) Emily buys a toaster during the sale for 10% off. If Ellen pays \$36, what was the original price?
- 8) Zack has an old car. He wants to sell it for 60% off the current price. The market price is \$500. How much money would he receive in exchange for the car if he were able to sell it at that rate?
- 9) Drew bought a chemistry book for \$30. Later that book was marked down by 20%. By how much has the value been decreased?
- 10) What is the original price if there is a 10% discount and the sale price is \$76.50?



Name \_\_\_\_\_

Date \_\_\_\_\_

# TAXES, TIPS & COMMISSION



**BIG IDEA: I CAN SOLVE PROBLEMS INVOLVING TAXES, COMMISSION AND TIPS.**

Read each problem carefully. Round your answers to the nearest hundredth if necessary.

1) An 18% tip is paid on an \$85 bill.

How much is the tip?

\_\_\_\_\_

2) A 17% tip is paid on a \$35.40 bill.

What is the total amount paid?

\_\_\_\_\_

3) 6% tax is paid on a \$230 purchase.

How much is owed for tax?

\_\_\_\_\_

4) A 20% tip is paid on a \$42.84 bill.

How much is the tip?

\_\_\_\_\_

5) There is a 12% tax on a \$199 hotel room.

What is the total amount paid?

\_\_\_\_\_

6) A 3% commission is earned on a \$500 sale.

How much is earned?

\_\_\_\_\_

7) A 15% tip is left on a \$124 dinner bill.

What is the total amount paid?

\_\_\_\_\_

8) 8% tax is owed on a \$75.64 jacket.

How much tax is owed?

\_\_\_\_\_

9) A 19% tip is left after a \$40 haircut.

How much is the tip?

\_\_\_\_\_

10) 6.5% tax is owed on a \$14,500 car.

What is the total amount paid?

\_\_\_\_\_

11) 8.4% tax is owed on a \$23 shirt.

How much tax is owed?

\_\_\_\_\_

12) A 22% tip is left on a \$268.60 dinner party bill.

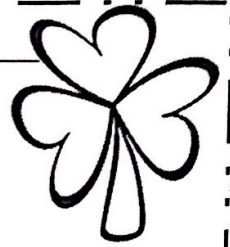
How much is the tip?

\_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

# TAXES, TIPS & COMMISSION



**BIG IDEA: I CAN SOLVE PROBLEMS INVOLVING TAXES, COMMISSION AND TIPS.**

Read each problem carefully. Round your answers to the nearest hundredth if necessary.

1) Roger is going to leave a 14.5% tip for his server. His meal was \$32.56. How much will the tip be?

\_\_\_\_\_

2) Aiden just moved. The moving company charged him \$1,400. He tipped the movers 8%. How much did he pay for his move?

\_\_\_\_\_

3) Jack bought a new TV for \$868. Sales tax is 7%. How much tax does Jack need to pay?

\_\_\_\_\_

4) Ashley is a vacation planner. She charges 3.5% to help families plan a trip. How much does she earn for planning a \$4,500 vacation?

\_\_\_\_\_

5) Adeeb just bought a new computer for \$1,999. He owes 5.5% in tax. How much does he pay for the computer?

\_\_\_\_\_

6) Donovan paid for a dinner party. The total bill came to \$642.83. He left a 20% tip. How much was the tip?

\_\_\_\_\_

7) Two airline tickets cost \$240 each. An 11% fee is due at the time of booking. How much is the fee for both tickets?

\_\_\_\_\_

8) Nate and Kristin just bought a new house for \$320,000. Their Realtor received 4% in commission. How much did their Realtor earn?

\_\_\_\_\_

9) A 5% tax is charged on a \$750 refrigerator. Write & solve two different problems to determine the total amount paid.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10) A 15% tip is left on a \$66.90 bill. Write & solve two different problems to determine the total amount paid.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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Name \_\_\_\_\_

Date \_\_\_\_\_

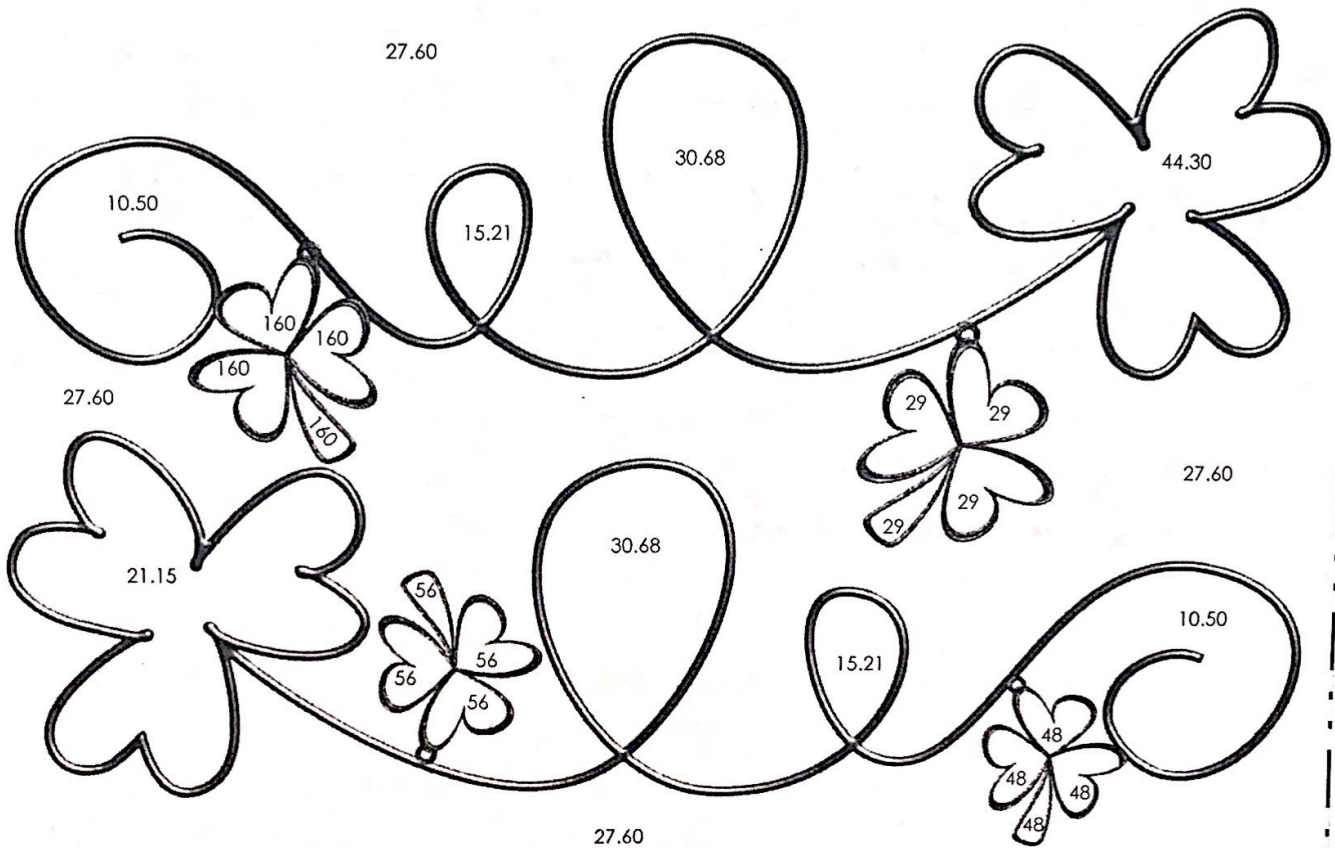
# Taxes and Tips



**BIG IDEA: I CAN SOLVE PROBLEMS INVOLVING TAXES AND TIPS.**

**PRACTICE:** Solve each problem. Find your answer on the picture and color it according to the color listed by your answer. Round to the nearest hundredth.

A dinner bill is \$84.50. An 18% tip is left. How much is the tip?	RED	A TV is \$460. Tax is 6%. How much is the tax?	WHITE
A dinner bill is \$145. A 20% tip is left. How much is the tip?	BLUE	A lunch bill is \$38.62. A 15% tip is left. What is the total cost?	BLACK
A pair of shoes is \$150. Tax is 7%. How much is the tax?	GREEN	A moving company charges \$800. The movers get a 20% tip. How much is the tip?	BROWN
A nail salon bill is \$50. A 12% tip is left. What is the total cost?	YELLOW	A DVD costs \$19.95. Tax is 6%. What is the total cost?	ORANGE
A refrigerator is \$1,200. Tax is 4%. How much is the tax?	PURPLE	Notebooks cost \$28.40. Tax is 8%. What is the total cost?	PINK



Name \_\_\_\_\_

Date \_\_\_\_\_

# Time to Shop!

Pick five items from the list below that you'd like to purchase and determine their sale price.

You can purchase more than one of a certain item. For example, if you want to purchase two pairs of shoes, you can! They will count for two of your items.

MP3 Player \$65.00 On sale for 15% off	Blu-ray Player \$42.00 On sale for 12% off	Jeans \$78.50 On sale for 20% off	Video Game System \$245.00 On sale for 5% off
Bicycle \$124.75 On sale for 25% off	42" television \$465.00 On sale for 7% off	Cell Phone \$199.00 On sale for 12.5% off	Sneakers \$99.50 On sale for 32% off

The items I'd like to buy are:

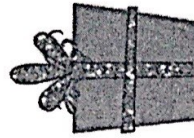
1. \_\_\_\_\_ sale price \$ \_\_\_\_\_
2. \_\_\_\_\_ sale price \$ \_\_\_\_\_
3. \_\_\_\_\_ sale price \$ \_\_\_\_\_
4. \_\_\_\_\_ sale price \$ \_\_\_\_\_
5. \_\_\_\_\_ sale price \$ \_\_\_\_\_

The total price of my items is \$ \_\_\_\_\_

Sales tax is 6.5%. With tax, my final total will be \$ \_\_\_\_\_

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<http://www.beyondtheworksheet.com>



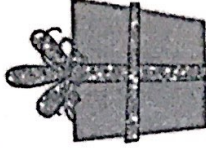
Name \_\_\_\_\_

Date \_\_\_\_\_

# Time to Shop!

## EXTENSION ACTIVITY

You now have a budget to stick to when shopping. Write inequalities to represent the following budgets.



Budget #1 - Spend no more than \$60 on any two items.

Budget #2 - Spend at least \$100 on one item.

Budget #3 - Spent less than \$340 on three of the same item.

Use the chart on the previous page to pick items that would fit each of the three budgets above. Show your work below.

Budget #1 - items \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ Total \$ \_\_\_\_\_  
Work: \_\_\_\_\_

Budget #2 - item \_\_\_\_\_ Total \$ \_\_\_\_\_  
Work: \_\_\_\_\_

Budget #3 - items \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ Total \$ \_\_\_\_\_  
Work: \_\_\_\_\_

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Name: \_\_\_\_\_

11/8/04

## Simple Interest Worksheet - Part 2

1. What is the interest earned on \$350.00 invested 4 years at a 5% simple interest?
2. If I put \$1500 into my savings account and earned \$180.00 of interest at 4% simple interest, how long was my money in the bank?
3. What would my final balance be if I put \$650 in the bank for 60 months with an interest rate of 6%?
4. David invested \$1000.00. What would that money grow to in 18 months at a 5.5% interest rate?
5. My final balance after 48 months was \$896.00. If I originally put \$800.00 into the bank, what was the interest rate?
6. How long would it take me to earn \$139.50 of interest at a 6% interest rate if I started with \$930.00?

Name \_\_\_\_\_

Date \_\_\_\_\_

### PERCENTS STUDY GUIDE

1. What percent of 60 is 35?
2. What is 50 percent of 20?
3. Find the percent of change – 60 is decreased to 40
4. Find the percent of change – 15 is increased to 300
5. A tee shirt costs \$25.00 but it goes on sale for 25% off. You also have to pay a 6% sales tax. What is the total cost of the tee shirt?
6. Kohl's buys a pair of jeans from the manufacturer for \$15.00 and they mark them up 80%. If Kohl's then discounts them for 40% off, what is the new cost of the jeans?
7. Jake borrowed \$5000 to buy a car at a 8% simple interest rate for 6 years. What is the total amount that he will pay back for the car?
8. At what simple interest rate will \$3500 amount to \$ 5000 in 6 years?
9. What is the balance on an account that started with \$650 at 7% simple interest after 8 years?
10. Target sells shampoo for \$6.50 and then puts it on sale for \$4.00. What was the percent off?