Name _____

6.5 Today's Special

Focus: solving problems involving fractions, decimals, and percents, calculating discounts

Warm Up

1. Fill in the blanks to make the values in each row equal.

Cents	Fraction of a Dollar	Decimal Form
a) 25¢		
b)	$\frac{1}{2}$	
c)		$0.75

2. Your friend says the most you could buy with $10.00 is an $8.70 item since there is $1.30 tax on $10.00.

Is she right?

YES NO

Explain.

_____

_____

3. If you score 7 out of 10 on a quiz, you have scored

_____%.

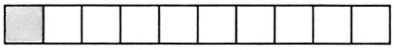
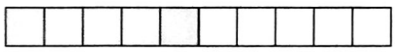
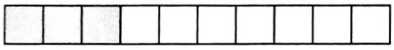
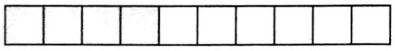
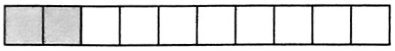
4. If you score 40 out of 50 on a test, you have scored

_____%.

Chapter 6

Skills Practice 17: Fractions, Decimals, and Percents

1. Complete the table.

	Shaded Region			Unshaded Region (%)
	Fraction	Decimal	Percent	
a) 	$\frac{1}{10}$	0.1	10%	90%
b) 				
c) 				
d) 				
e) 				

Name _____

2. The total percent of each bar (shaded plus unshaded area) in #1 is _____ %.

3. Fill in the blanks to make the values in each row equal.

Percent	Decimal	Fraction	
		Hundredths	Lowest Terms
a) 10%	0.10	$\frac{10}{100}$	$\frac{1}{10}$
b) 15%		$\frac{15}{100}$	$\frac{3}{20}$
c) 20%	0.20	$\frac{20}{100}$	
d) 25%		$\frac{25}{100}$	
e) 50%	0.50		
f) 75%			
g) 100%			

$\frac{15 \div 5}{100 \div 5} = \frac{3}{20}$

Chapter 6

Calculating the Sale Price

- Many restaurants offer discount coupons for certain items on the menu.
- Often, specials are a percent or a fraction off the regular price.

1. A special of 30% off means the price is _____ % of the regular price.

2. A special of $\frac{1}{4}$ off means the price is _____ of the regular price.

3. Why might a restaurant offer specials?

_____

_____

Name _____

4. Complete the table. Use the calculation method shown. Choose a percent discount for the last item yourself.

Menu Item	Regular Price	Percent Discount	Sale Price as a Percent of Regular Price	Sale Price
a) Chicken with cashews	$12.99	20%	80%	80% of $12.99 = 0.80 × $12.99 = $10.39
b) Bamboo salad	$7.50	10%		
c) Pad Thai dinner	$10.25	40%		
d) Ginger chicken dinner	$11.50	_____		

Chapter 6

5. Complete the table. Use the calculation method shown. Choose the fraction discount for the last item.

Menu Item	Regular Price	Fraction Discount	Sale Price as a Fraction of Regular Price	Sale Price
a) French toast	$6.99	$\frac{1}{4}$ off	$\frac{3}{4}$	$\$6.99 \times \frac{3}{4}$ = $6.99 × 3 ÷ 4 = $5.24
b) Western sandwich	$5.50	$\frac{1}{3}$ off		
c) Eggs Benedict	$9.25	half off		
d) Steak and eggs	$12.50	_____		

Name _____

- You work part-time at a grocery store.
- Another local grocery store has begun to attract more customers.
- Your store cuts its prices on some items.

6. Calculate the sale price for each item.
Write the sale price in each new price tag.

Item	Regular Price	Discount	Sale Price
a) Tomato sauce	$1.79/can	10%	
b) Tomato paste	$1.99/can	20%	
c) Saltine crackers	$2.89/box	$\frac{1}{4}$ off	
d) Multi-grain crackers	$3.69/box	$\frac{1}{3}$ off	

Check Your Understanding

An $800 computer is on sale for 20% off. Write what you would say to a friend to explain a way to determine the sale price.

_____

_____

_____