FSA Review Day 3

## 49 Proportional Relationships

Is the relationship in the table proportional? Explain why or why not.

| Songs | 4 | 8 | 10 | 12 |
|---|---|---|---|---|
| Cost ($) | 3.20 | 4.40 | 8 | 9.60 |

## 50 Proportional Relationships

Is the relationship shown proportional? Explain why or why not.
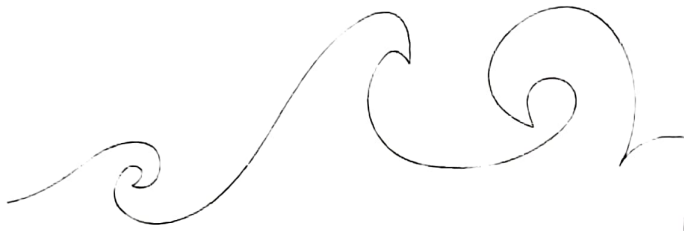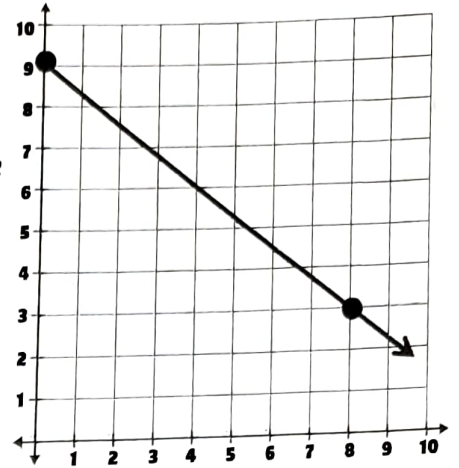
## 51 Proportional Relationships

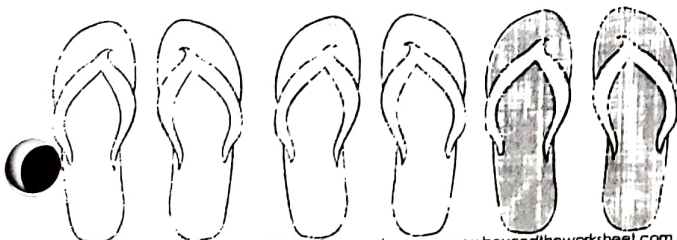Is the relationship proportional? Explain why or why not.

Ryan earns $258.75 for 23 hours of work, and $345 for 30 hours of work.

## 52 Proportional Relationships

Is the relationship proportional? Explain why or why not.

Four pounds of green apples cost $11.20 and 6.5 pounds of red apples cost $18.20.

## 53

# The Coordinate Plane

Identify the coordinates of each point.
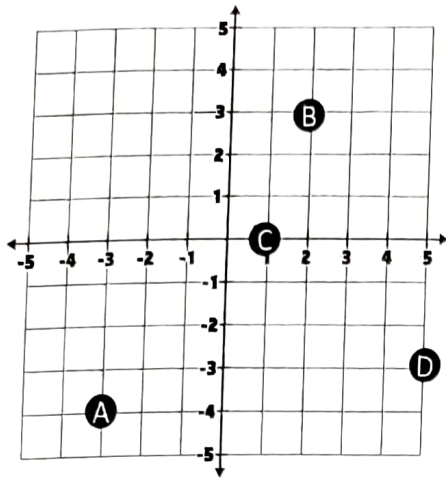
## 54

# The Coordinate Plane
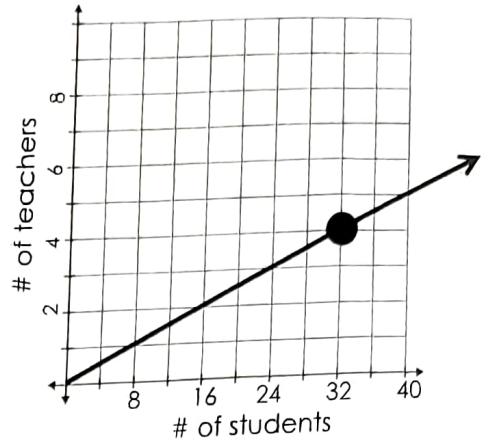
What is the meaning of the point?

# of teachers vs # of students

## 55

# The Coordinate Plane

What is the meaning of the point?

Cost ($) vs # of tickets
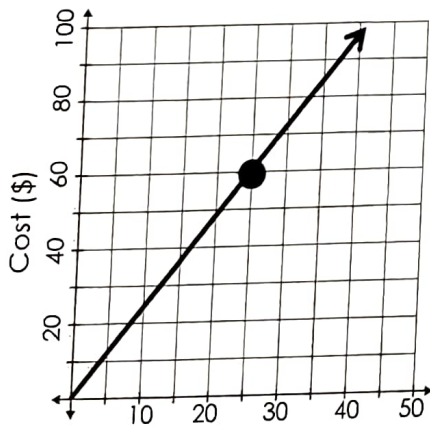
## 56

# The Coordinate Plane

Based on the graph, how much gas is left in the tank after 2 hours?
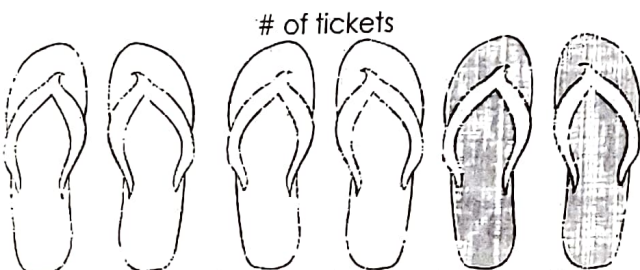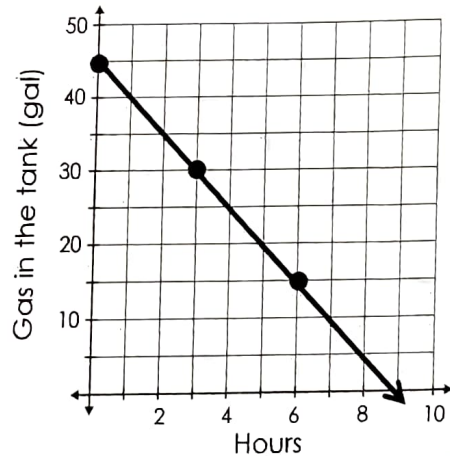
Gas in the tank (gal) vs Hours

## Simple Interest

Determine the amount of interest earned on a $5,000 investment after 6½ years with a 3% interest rate.

## Simple Interest

Determine the amount of interest earned on a $675 investment after 3 years with a 2.5% interest rate.

## Simple Interest

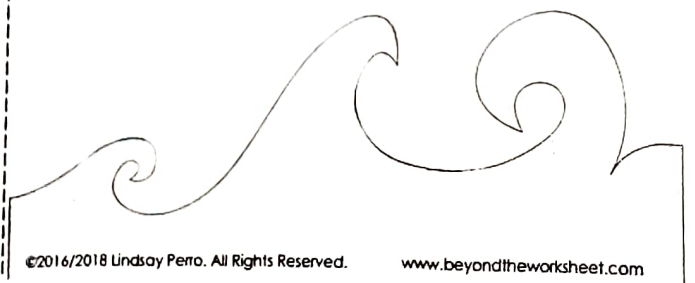Determine the new balance in an account after 10 years with a 0.5% interest rate if the initial deposit was $10,000.

## Simple Interest

Determine the new balance in an account after 6 years with a 2.3% interest rate if the initial deposit was $1,000.

**61**

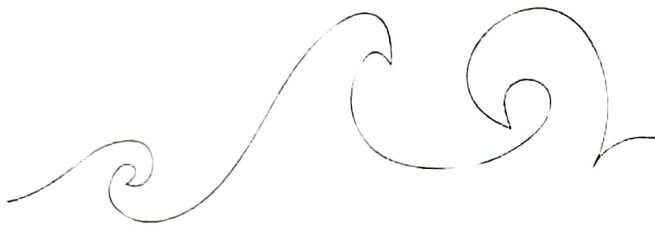## Taxes, Tips and Fees

There is 4% tax on a $124 cell phone bill. What is the total amount owed?

**62**

## Taxes, Tips and Fees

An 18% tip was left on a $55 dinner bill. How much was the tip?
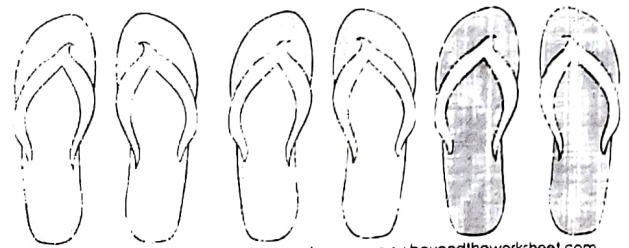
**63**

## Taxes, Tips and Fees

Nina gets her house professionally cleaned. The fee for the service is 9% of the total square footage of the house. If Nina's house is 1,680 square feet, how much does she pay for the cleaning service?
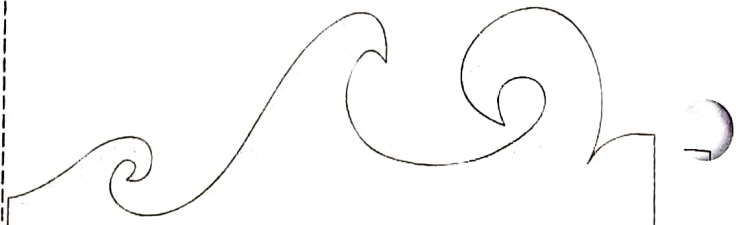
**64**

## Taxes, Tips and Fees

A mortgage company charges a 1.5% processing fee for all mortgages. How much will the fee be on a $330,000 mortgage?

## 65

### Percent Change

Find the percent change:
Old price : $800
New price : $300
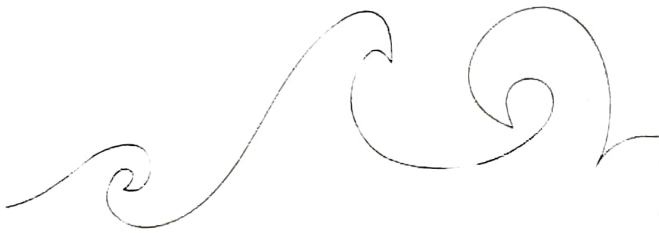
## 66

### Percent Change

Find the percent change:
Old temperature : 62°
New temperature : 65°

## 67

### Percent Change

Find the percent change:
Old amount : 800
New amount : 900
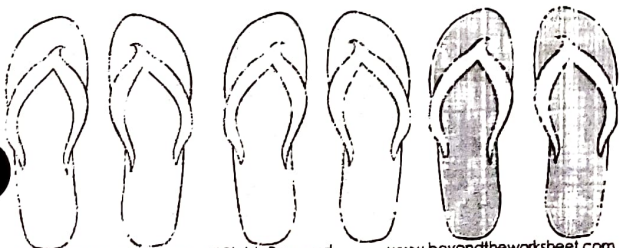
## 68

### Percent Change

Find the percent change:
Old price : $3,500
New price : $2,250
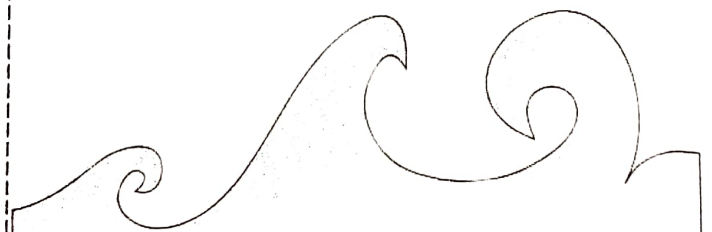
**69**

## Adding Linear Expressions

Simplify.

$$4(2y + 5) + (^-6 - 4y)$$
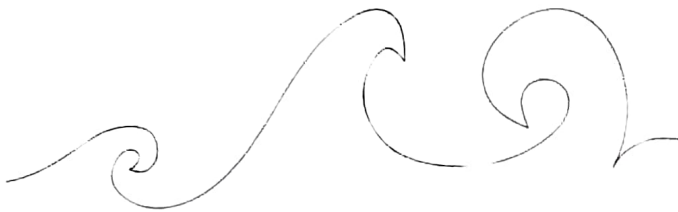
**70**

## Adding Linear Expressions

Simplify.

$$(^-13 + 5y) + (16y - 10)$$

**71**

## Adding Linear Expressions

Simplify.

$$^-7(5y - 2) + 2(3y + 11)$$

**72**

## Adding Linear Expressions

Simplify.

$$8(2y - 1) + 3(3 + 2y)$$