

# ENTERPRISE Village

## Economic Math Essentials Teacher Guide & Answer Key

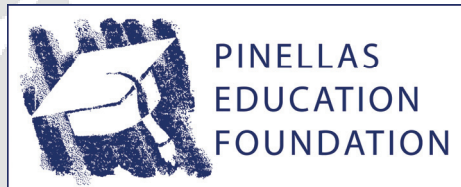
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Slide 1

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## Answer Key - Economic Essentials Problems

**Slide 3** - Lauren spoke with her mom about philanthropy and raising money by selling bracelets to give to the SPCA. She made 53 bracelets and sold them for \$2.35 each. If she sells all of her bracelets, how much money will she have to give to the SPCA?

**Answer:** *Lauren will have \$124.55 for the SPCA*

**Content Standard(s):** MAFS.5.NBT.2.7; building on previous work with MAFS.4.MD.1.2  
**Mathematical Practices to be emphasized:** 1, 2, 4

**Slide 4** - Jenica wants to go to the movies with her two friends and pay for their tickets as well as her own. If each ticket costs \$9.50, will she have enough money if she pays with a twenty dollar bill? Explain how you arrived at your answer.

**Answer:** *No, she will not have enough money to pay for the 3 tickets with a \$20.00 bill. Explanations will vary. Each ticket costs almost \$10.00 which would make the cost of 3 tickets about \$30.00. The 3 tickets will actually cost \$28.50.*

**Content Standard(s):** MAFS.5.NBT.2.7; building on previous work from MAFS.4.MD.1.2  
**Mathematical Practices to be emphasized :** 1, 3, 4

**Slide 5** - Grayson went to Busch Gardens and spent a total of \$43.76. Michael went and spent two times as much as Grayson. Ben went with them and spent 5 dollars less than Michael. How much money did Ben spend? Draw a diagram to explain your calculations.

**Answer:** *Ben spent \$82.52 at Busch Gardens.*


**Content Standard(s):** MAFS.5.NBT.2.7; building on previous work from MAFS.4.OA.1.2  
**Mathematical Practices to be emphasized:** 1, 2, 4

**Slide 6** - Ava wanted to buy a new outfit for the winter weather. She wanted to buy a new pair of jeans that cost \$23.95, a pair of boots that cost \$43.56, and a sweater that cost \$22.83. If she pays with \$100.00 bill, will she get change back? If so, how much change will she get?





**Answer:** *Ava's purchases will cost her \$90.34, thus she will get back \$9.66 from her \$100.00.*

**Content Standard(s):** MAFS.5.NBT.2.7; building on previous work from MAFS.4.MD.1.2  
**Mathematical Practices to be emphasized:** 1, 2, 4

Enterprise Village – Economic Math Essentials



Sandy has a job making cookies at a cookie shop. She works 40 hours a week and makes \$9.40 an hour. How much money does she make each week?

Slide 7

Enterprise Village – Economic Math Essentials


There were 347 people at a \$150-a-plate dinner to raise money for charity. Expenses were \$5,000.00. What is the amount that actually went to the charity?









Slide 10

Enterprise Village – Economic Math Essentials







Finn accidentally broke his dad's picture frame. It will cost \$12.00 to replace the frame. If his mom pays him \$1.10 to wash the dishes, how many times will he have to wash the dishes in order to have enough money to replace the frame?

Slide 8

Enterprise Village – Economic Math Essentials





Elijah decided to ride in the Adopt-A-Pet Bike-A-Thon. He was able to get 53 people to sponsor him. Twenty-eight sponsors pledged \$0.15 per mile. The others pledged \$0.25 per mile. Elijah rode 20 miles in the Bike-A-Thon. How much money did he raise for the Adopt-A-Pet charity?

Slide 11


Enterprise Village – Economic Math Essentials

Rene wants to buy 3 pounds of green beans. If she goes to the store and sees they cost \$2.39 a pound, about how much money will the beans cost? Explain your estimate.









Slide 9

Enterprise Village – Economic Math Essentials



Sergio makes lemonade. He plans to use the profit for the Ronald McDonald House. If it costs \$9.38 to make the lemonade and he sells 36 cups for \$1.00 each, how much money does he make after his initial costs?

Slide 12

**Slide 7** - Sandy has a job making cookies at a cookie shop. She works 40 hours a week and makes \$9.40 an hour. How much money does she make each week?

**Answer:** *Sandy makes a total of \$376.00 per week*

**Content Standards: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 4**

**Slide 8** - Finn accidentally broke his Dad's picture frame. It will cost \$12.00 to replace the frame. If his mom pays him \$1.10 to wash the dishes, how many times will he have to wash the dishes in order to have enough money to replace the frame?

**Answer:** *Finn will need to wash the dishes a total of 11 times in order to have enough money to replace the broken frame.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 4, 6**

**Slide 9** - Rene wants to buy 3 pounds of green beans. If she goes to the store and sees they cost \$2.39 a pound, about how much money will the beans cost? Explain your estimate.

**Answer:** *The beans will cost a little more than \$7.00. Explanations will vary.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 3**

**Slide 10** - There were 347 people at a \$150-a-plate dinner to raise money for charity. Expenses were \$5,000.00. What is the amount that actually went to the charity?

**Answer:** *An amount of \$47,050 went to the charity.  $347 \text{ people} \times \$150.00 = \$52,050$ ;  $\$52,050 - \$5,000.00 \text{ expenses} = \$47,050.00$*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 4**

**Slide 11** - Elijah decided to ride in the Adopt-A-Pet Bike-A-Thon. He was able to get 53 people to sponsor him. Twenty-eight sponsors pledged \$0.15 per mile. The others pledged \$0.25 per mile. Elijah rode 20 miles in the Bike-A-Thon. How much money did he raise for the Adopt-A-Pet charity?

**Answer:** *Elijah raised \$209.00 for the Adopt-A-Pet charity.  $20 \text{ miles} \times \$4.20 = \$84.00$   $25 \text{ people} \times \$0.25 \text{ per mile} = \$6.25 \times 20 = \$125.00$   $\$84.00 + 125.00 = \$209.00$*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 6**

**Slide 12** - Sergio makes lemonade. He plans to use the profit for the Ronald McDonald House. If it costs \$9.38 to make the lemonade and he sells 36 cups for \$1.00 each, how much money does he make after his initial costs?

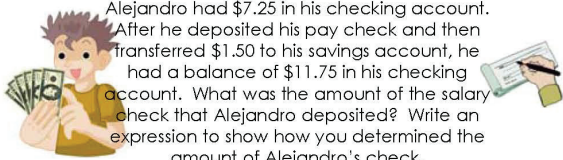



**Answer:** *Sergio makes a profit of \$26.62*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 4**

Enterprise Village – Economic Math Essentials





Alejandro had \$7.25 in his checking account. After he deposited his pay check and then transferred \$1.50 to his savings account, he had a balance of \$11.75 in his checking account. What was the amount of the salary check that Alejandro deposited? Write an expression to show how you determined the amount of Alejandro's check.

Slide 13

Enterprise Village – Economic Math Essentials





Jack's mom has always told him to use the money he has in his savings account for emergencies only. His dog gets sick and he needs to go to the veterinarian. The vet bill will be \$77.77. If he has \$80.00 in his savings account and decides to use that money, how much would he have left?

Slide 16

Enterprise Village – Economic Math Essentials


In May, Roddy has a total of \$78.53 in his savings account. He is curious about how much interest he can earn at the bank offering an interest rate of 5% per month. How much interest will he earn for the month?




Slide 14

Enterprise Village – Economic Math Essentials

Here is a list of discount coupons. You do not have a calculator. Describe two ways to find the total amount you can save if you used all of these coupons.







Discount Coupons	
\$0.05	
\$0.88	
\$0.23	
\$0.42	
\$0.77	
\$0.35	
\$0.99	
\$0.15	

Slide 17

Enterprise Village – Economic Math Essentials

Perry has \$36.77 in his checking account. He has \$432.00 in his savings account. If he uses both accounts to pay for birthday presents that cost \$445.00, how much money will he have left?

Slide 15

Enterprise Village – Economic Math Essentials

Huge Sale – Don't Miss It!			
Body Board - \$145		Wet Suit - \$68	
Board Bag - \$65	Savelli	Leash - \$13	
Buy the whole package for \$275			

Mitchell's Surf and Tennis Shop is having a sale on surfing equipment. Carrie wants to purchase all four pieces of equipment separately. Kevin thinks the package price is a better deal. Does it cost less to buy the pieces separately or as a package? Show proof of your thinking.





Slide 18

**Slide 13** - Alejandro had \$7.25 in his checking account. After he deposited his pay check and then transferred \$1.50 to his savings account, he had a balance of \$11.75 in his checking account. What was the amount of the salary check that Alejandro deposited? Write an equation to show how you determined the amount of Alejandro's check.

**Answer:** *The amount of Alejandro's salary check was \$6.00. Sample equation:  $\$7.25 + X - \$1.50 = \$11.75$*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 4**

**Slide 14** - In May, Roddy has a total of \$78.53 in his savings account. He is curious about how much interest he can earn at the bank offering an interest rate of 5% per month. How much interest will he earn for the month?

**Answer:** *Roddy will earn \$3.93 interest on his savings account for the month of May.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized 2, 6, 7**

**Slide 15** - Perry has \$36.77 in his checking account. He has \$432.00 in his savings account. If he uses both accounts to pay for birthday presents that cost \$445.00, how much money will he have left?

**Answer:** *Perry will have \$23.77 left in his accounts.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 6**

**Slide 16** - Jack's mom has always told him to use the money he has in his savings account for emergencies only. His dog gets sick and needs to go to the veterinarian. The vet bill will be \$77.77. If he has \$80.00 dollars in his savings account and decides to use that money, how much would he have left?

**Answer:** *Jack would have \$2.23 left in his savings account.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 6**

**Slide 17** - Here is a list of discount coupons. You do not have a calculator. Describe two ways to find the total amount you can save if you used all of these coupons.

\$0.65      \$0.88      \$0.23

**Answer:** *You will save between \$4.00 - \$5.00 by using the coupons. Solution strategies will vary. Accept reasonable and justifiable explanations.*

\$0.42      \$0.77      \$0.35

**Content Standard: MAFS.5.NBT.1.4**

**Mathematical Practices to be emphasized: 1, 6**

\$0.99      \$0.15

**Slide 18** - Mitchell's Surf and Tennis Shop is having a sale on surfing equipment. Carrie wants to purchase all four pieces of equipment separately. Kevin thinks the package price is a better deal. Does it cost less to buy the pieces separately or as a package? Show proof of your thinking.

**Answer:** *It costs \$16.00 less to purchase the package of surfing equipment.*





**Content Standard: MAFS.5.NBT.2.5**

**Mathematical Practices to be emphasized: 1, 3**

<b>HUGE SALE – Don't Miss It!!</b>	
Body Board \$145	Wet Suit \$68
Board Bag \$65	Leash \$13
<b>SAVE!!!!</b>	
Buy the <u>whole package</u> for \$275	

Enterprise Village – Economic Math Essentials

Ricardo had \$10.00 in his account. He bought a pair of binoculars for \$4.75, a pair of sunglasses for \$3.35, and a pen for \$0.75. How much money remained in his account?

Slide 19

Enterprise Village – Economic Math Essentials

Shannon buys perfume when it is on sale. Which is the better buy? Sweet Nothings or Heaven Scents?

How much will she save by buying the less expensive one?

Sweet Nothings 3 oz. for \$7.50		Heaven Scents 4 oz. for \$9.48
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Slide 22

Enterprise Village – Economic Math Essentials

The Steins parked in the parking garage while they went to the circus. How much did they have to pay if they parked from 10:15 AM to 1:45 PM?

Park - Your - Car		Rate:
	First hour	\$9.00
	Each additional hour or part of an hour	\$6.00
	Maximum	\$25.00

Slide 20

Enterprise Village – Economic Math Essentials

How much will the Magic Island Fantasy Park collect for 12 single-day tickets and 10 two-day tickets?

Magic Island Fantasy Park	
Ticket Prices	
Single-day	\$19.95
Two-day	\$36.50










Slide 23

Enterprise Village – Economic Math Essentials

Last summer Terry worked on a tomato farm. His boss agreed to pay him \$0.01 for the first plant he picked, \$0.02 for the second, \$0.04 for the third, \$0.08 for the fourth and so on until he had picked all 12 bushes.

How much was he paid for the 12<sup>th</sup> bush? How much money did he make in all?





Would Terry earn more being paid as he was or being paid \$3.00 per bush?

Slide 21

Enterprise Village – Economic Math Essentials

Julian kept depositing pennies in a piggy bank. He added \$0.01 the first week, \$0.02 the second week, \$0.04 the third week, \$0.08 the fourth week, and so on. How many pennies will Julian add the tenth week? How much money will be in the jar altogether after 10 weeks?

Slide 24



**Slide 19** - Ricardo had \$10.00 in his account. He bought a pair of binoculars for \$4.75, a pair of sunglasses for \$3.35, and a pen for \$0.75. How much money remained in his account?

**Answer:** *There was \$1.15 remaining in Ricardo's account.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 4, 6**

**Slide 20** - The Steins parked in the parking garage while they went to the circus. How much did they have to pay if they parked from 10:15 AM to 1:45 PM?

**Answer:** *The Steins would pay the \$25.00 maximum to park their car. The hourly rate would exceed the maximum price, thus they would only need to pay the maximum.*

PARK - YOUR - CAR	
	Rates
First hour	\$9.00
Each additional hour or part of an hour	\$6.00
Maximum	\$25.00

**Content Standards: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 3, 4**

**Slide 21** - Last summer Terry worked on a tomato farm. His boss agreed to pay him \$0.01 for the first plant he picked, \$0.02 for the second, \$0.04 for the third, \$0.08 for the fourth and so on until he had picked all 12 bushes. How much was he paid for the 12<sup>th</sup> bush? How much money did he make in all? Would Terry earn more being paid as he was or being paid \$3.00 per bush?

**Answer:** *Terry would make \$20.48 for picking the tomatoes from the 12th bush. He would make \$40.95 for picking all twelve bushes. He would earn more money being paid the way he was. At \$3.00 a bush, Terry would make \$36.00*

**Content Standard: MAFS.5.NBT.2.7; building on previous work on MAFS.4.OA.3.5**

**Mathematical Practices to be emphasized: 1, 3, 4, 7**

**Slide 22** - Shannon buys perfume when it is on sale. Which is the better buy? Sweet Nothings or Heaven Scents? How much will she save by buying the less expensive one?

Sweet Nothings

3 oz. for \$7.50

Heaven Scents

4 oz. for \$9.48

**Answer:** *Shannon saves \$0.13 by buying Heaven Scents.  $\$7.50 \div 3 = \$2.50$  and  $\$9.48 \div 4 = \$2.37$ .  $\$2.50 - \$2.37 = \$0.13$ .*

**Content Standard: MAFS.5.NBT.2.6**

**Mathematical Practices to be emphasized: 1, 2, 6**

**Slide 23** - How much will the Magic Island Fantasy Park collect for 12 single-day tickets and 10 two-day tickets?

Magic Island Fantasy Park Ticket Prices	
Single-day	\$19.95
Two-day	\$36.50

**Answer:** *The cost of the tickets would be \$604.40 (12 single-day tickets would cost \$239.40 and the 10 two-day tickets would cost \$365.00 for a total of \$604.40).*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 4, 6**


**Slide 24** - Julian kept depositing pennies in a piggy bank. He added \$0.01 the first week, \$0.02 the second week, \$0.04 cents the third week, \$0.08 the fourth week, and so on. How many pennies will Julian add the tenth week? How much money will be in the jar altogether after 10 weeks?

**Answer:** *Julian will add 512 pennies to the piggy bank the tenth week. After 10 weeks, there will be \$10.23 in the bank.*




**Content Standard: MAFS.5.NBT.2.7; building on previous work with MAFS.4.OA.3.5**

**Mathematical Practices to be emphasized: 1, 2, 4, 7**

Enterprise Village – Economic Math Essentials




Justin spent \$50.00 to buy tickets for the concert. Box seats are \$7 each and orchestra seats are \$5.00. If he buys 8 tickets, some of each kind, how many are box seat tickets, and how many are for orchestra seats?








Slide 25

Enterprise Village – Economic Math Essentials




Chrissy went to the Super Scoop Ice Cream Shop on Saturday. She spent half her money on a cheeseburger. Then she spent \$1.35 on an ice cream cone. She had \$1.50 left. How much money did she have at the start?








Slide 28

Enterprise Village – Economic Math Essentials







Mitchell wants to buy a new tire for his bicycle. It costs \$19.49 including tax. Mitchell has saved \$3.10. If he earns \$2.25 an hour working at his uncle's pet store, how many hours must he work in order to have enough money to buy the bike tire?

Slide 26

Enterprise Village – Economic Math Essentials





Pablo bought a widescreen portable DVD player. He paid \$25.00 as a down payment and agreed to pay \$13.50 a month for 6 months. What was the total cost of the DVD player?

Slide 29

Enterprise Village – Economic Math Essentials






Professor McMillan is going to buy a new IPAD. The price is \$419.00 if she pays cash. If she makes monthly payments she must pay \$100.00 down and \$30.27 a month for 1 year. Which way of paying will cost her less? How much less?

Slide 27

Enterprise Village – Economic Math Essentials

Alex has \$3.70 in dimes and quarters in his coin collection. He has 9 more dimes than quarters. How many quarters does Alex have?

Slide 30

**Slide 25** - Justin spent \$50.00 to buy tickets for the concert. Box seats are \$7 each and orchestra seats are \$5.00. If he buys 8 tickets, some of each kind, how many are box seat tickets, and how many are for orchestra seats?

**Answer:** *Justin will buy 5 box seats and 3 orchestra seats.  $\$7.00 \times 5 = \$35.00$  and  $\$5.00 \times 3$  tickets =  $\$15.00$ ;  $\$35.00 + \$15.00 = \$50.00$*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 4**

**Slide 26** - Mitchell wants to buy a new tire for his bicycle. It costs \$19.49 including tax. Mitchell has saved \$3.10. If he earns \$2.25 an hour working at his uncle's pet store, how many hours must he work in order to have enough money to buy the bike tire?

**Answer:** *Mitchell will need to work 8 hours in order to have enough money to buy the bike tire.  $\$19.49 - \$3.10 = \$16.39$   $\$16.39$  divided by  $\$2.25 = \$7.28$  which is greater than  $\$7.00$ , thus Mitchell will need to work an additional hour.  $\$2.25 \times 7$  hours only equals  $\$15.75$  which would not be enough to purchase the tire.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 3, 6**

**Slide 27** - Professor McMillian is going to buy a new IPAD. The price is \$419.00 if she pays cash. If she makes monthly payments, she must pay \$100.00 down and \$30.27 a month for 1 year. Which way of paying will cost her less? How much less?

**Answer:** *It will cost Professor McMillian \$463.24 if she makes payments ( $\$363.24 + \$100.00$ ). It will cost her \$44.24 less to pay cash.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 3, 6**

**Slide 28**- Chrissy went to the Super Scoop Ice Cream Shop on Saturday. She spent half her money on a cheeseburger. Then she spent \$1.35 on an ice cream cone. She had \$1.50 left. How much money did she have at the start?

**Answer:** *Chrissy had \$5.70 at the start.  $\$1.50 + \$1.35 = \$2.85$ .  $\$2.85$  doubled =  $\$5.70$*

**Content Standards: MAFS.5.NF.1.2; MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 4, 5**

**Slide 29** - Pablo bought a widescreen portable DVD player. He paid \$25.00 as a down payment and agreed to pay \$13.50 a month for 6 months. What was the total cost of the DVD player?

**Answer:** *The total cost of the DVD player was \$106.00.  $\$13.50 \times 6 = \$81.00$ ;  $\$81.00 + \$25.00 = \$106.00$*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 4**


**Slide 30** - Alex has \$3.70 in dimes and quarters in his coin collection. He has 9 more dimes than quarters. How many quarters does Alex have?

**Answer:** *Alex has 8 quarters and 17 dimes. (8 quarters = \$2.00 and 17 dimes = \$1.70)*




**Content Standards: MAFS.5.NBT.2.7; building on previous work with MAFS. 2.MD.3.8 and MAFS.4.MD.1.2**

**Mathematical Practices to be emphasized: 1, 2, 4, 6**

Enterprise Village – Economic Math Essentials







Chandra wants to buy a snack at the snack machine that will only accept quarters, dimes, and nickels. If each snack costs \$0.35, and if she must use exact change, how many different combinations of coins can Chandra use to buy a snack?

Slide 31

Enterprise Village – Economic Math Essentials


Janet has \$31.00 in her checking account. She uses her debit card at the store to buy a new DVD. If she has \$16.22 left in her account, what was the cost of the DVD?




Slide 34

Enterprise Village – Economic Math Essentials

Miguel rented a bike from Bob's Bike Rental. He picked it up at 10:15 AM and returned it at 3:45 PM the same day. How much did it cost Miguel to rent the bike?




BOB'S BIKE RENTAL	
\$4.00	First hour or fraction of an hour
\$2.00	Each additional hour or fraction of an hour








Slide 32

Enterprise Village – Economic Math Essentials




In December, Levi's checking account has a total of \$156.00. In January, he babysits for his sister 3 times and makes \$15.00 each time. If he doesn't spend any money, how much money will he have in his account?








Slide 35

Enterprise Village – Economic Math Essentials



Marcia won a contest in June of 2015. The prize was \$50.00 for each month she had been living, up to and including, June of 2015. If Marcia was born in April of 1997, how much money did she win?

Slide 33

Enterprise Village – Economic Math Essentials

Susan earns \$35.00 a week for walking neighborhood dogs in the month of July (4 weeks). When school starts at the beginning of the 3<sup>rd</sup> week of August, she is no longer able to walk dogs. How much money did she earn in all for walking dogs?






Slide 36

**Slide 31** - Chandra wants to buy a snack at the snack machine that will only accept quarters, dimes, and nickels. If each snack costs \$0.35, and if she must use exact change, how many different combinations of coins can Chandra use to buy a snack?

**Answer:** *There are 6 different combinations of coins (quarters, dimes, and nickels) that Chandra can use in the snack machine to buy the snack for \$0.35.*

**Content Standards:** MAFS.5.NBT.2.7; building on previous work with MAFS. 2.MD.3.8 and MAFS.4.MD.1.2  
**Mathematical Practices to be emphasized:** 1, 4, 5, 7

**Slide 32** - Miguel rented a bike from Bob's Bike Rental. He picked it up at 10:15 AM and returned it at 3:45 PM the same day. How much did it cost Miguel to rent the bike?

**Answer:** *It will cost Miguel \$19.00 to rent the bicycle from 10:15 AM - 3:45 PM.*

<b>BOB'S BIKE RENTALS</b>	
\$4.00	First hour or fraction of an hour
\$3.00	Each additional hour or fraction of an hour

**Content Standards:** Building on previous work with MAFS.4.MD.1.2; MAFS.5.NBT.2.7  
**Mathematical Practices to be emphasized:** 1, 2, 6

**Slide 33** - Marcia won a contest in June of 2015. The prize was \$50.00 for each month she had been living, up to and including, June of 2015. If Marcia was born in April of 1997, how much money did she win?

**Answer:** *Marcia won \$10,900.00. She had been alive for 18 years and 2 months; which is 218 months. At \$50.00 a month -  $218 \times \$50.00 = \$10,900.00$*

**Content Standards:** MAFS.5.MD.1.1; MAFS.5.NBT.2.7  
**Mathematical Practices to be emphasized:** 1, 2, 4

**Slide 34** - Janet has \$31.00 in her checking account. She uses her debit card at the store to buy a new DVD. If she has \$16.22 left in her account, what was the cost of the DVD?

**Answer:** *The cost of the DVD was \$14.78.*

**Content Standard:** MAFS.5.NBT.2.7  
**Mathematical Practices to be emphasized:** 1, 2

**Slide 35** - In December, Levi's checking account has a total of \$156.00. In January, he babysits for his sister 3 times and makes \$15.00 each time. If he doesn't spend any money, how much money will he have in his account?

**Answer:** *Levi will have \$201.00 in his account.*

**Content Standard:** MAFS.5.NBT.2.7  
**Mathematical Practices to be emphasized:** 1, 2, 4

**Slide 36** - Susan earns \$35.00 a week for walking neighborhood dogs in the month of July (4 weeks). When school starts at the beginning of the 3<sup>rd</sup> week of August, she is no longer able to walk dogs. How much money did she earn in all for walking dogs?





**Answer:** *Susan earned \$210.00 for walking the neighborhood dogs.*

**Content Standard:** MAFS.5.NBT.2.7  
**Mathematical Practices to be emphasized:** 1, 5, 6

Enterprise Village – Economic Math Essentials

**VIDEO GAMES**

Ashton has a total of \$503.00 in his checking account. He is trying to save some money to buy a new game system. He transfers \$75.00 to his savings account. How much money remains in his checking account?

Slide 37

Enterprise Village – Economic Math Essentials

Alex has \$23.39 saved up. He wants to buy Minecraft for his game system, but the game costs \$75.95. How much money does he need to make in order to buy the game?










Slide 40

Enterprise Village – Economic Math Essentials

Tyler and Finn went to the carnival. Tyler spent \$13.00 in all. Finn spent \$5.00 more than Tyler. Hilary spent 3 times as much as Finn. Write an expression to represent the problem, then determine how much money the 3 friends spent in all at the carnival?

Slide 38

Enterprise Village – Economic Math Essentials

Hannah wants to get some new clothes for the 5<sup>th</sup> grade party. She has a total of \$73.00. If she wants to buy a dress for \$24.50, a pair of shoes for \$35.89, and a necklace for \$14.35, does she have enough money? If not, how much more money does she need?










Slide 41

Enterprise Village – Economic Math Essentials





Lucy had \$56.00 in her account in March. In June, she had five times as much money as she did in March. How much money did she have in June?

Slide 39

Enterprise Village – Economic Math Essentials

If Bill has \$150.00 in his savings account and he spends 1/10 of it on a new baseball glove, how much money did he spend?

Slide 42

**Slide 37** - Ashton has a total of \$503.00 in his checking account. He is trying to save some money to buy a new game system. He transfers \$75.00 to his savings account. How much money remains in his checking account?

**Answer:** *Ashton has \$428.00 remaining in his checking account.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 6**

**Slide 38** - Tyler and Finn went to the carnival. Tyler spent \$13.00 in all. Finn spent \$5.00 more than Tyler. Hilary spent 3 times as much as Finn. Write an expression to represent the problem, then determine how much money the 3 friends spent in all at the carnival?

**Answer:** *Let  $X$  = money spent by Tyler. Sample Expression:  $x + x+5 + 3(x+5) =$  The three friends spent a total of \$85.00 at the carnival.*

**Content Standards: MAFS.5.NBT.2.7 ; MAFS.5.OA.1.2**

**Mathematical Practices to be emphasized: 2, 4**

**Slide 39** - Lucy had \$56.00 in her account in March. In June, she had five times as much money as she did in March. How much money did she have in June?

**Answer:** *In June, Lucy had \$280.00 in her account.*

**Content Standard: MAFS.5.NBT.2.7; building on previous work on MAFS.4.OA.1.1**

**Mathematical Practices to be emphasized: 1, 2**

**Slide 40** - Alex has \$23.39 saved up. He wants to buy Minecraft for his game system, but the game costs \$75.95. How much money does he need to make in order to buy the game?

**Answer:** *Alex needs to make \$52.56 more in order to buy the game.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 6**

**Slide 41** - Hannah wants to get some new clothes for 5<sup>th</sup> grade party. She has a total of \$73.00. If she wants to buy a dress for \$24.50, a pair of shoes for \$35.89, and a necklace for \$14.35, does she have enough money? If not, how much more money does she need?

**Answer:** *No, Hannah does not have enough money to buy the new clothes for the party. She has \$73.00, but the total cost of the clothes is \$74.74. Hannah is short \$1.74.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 6**

**Slide 42** - Bill has \$150.00 in his savings account. If he spends 1/10 of it on a new baseball glove, how much money did he spend?

**Answer:** *Bill spent \$15.00 on a new baseball glove.*


**Content Standard: MAFS.5.NF.2.4**


**Mathematical Practices to be emphasized: 1, 2, 4**

Enterprise Village – Economic Math Essentials



Lori has about \$200.00 in her bank account. She wants to take 6 friends to a football game and the tickets cost \$26.00 a person. Does she have enough money? (Estimate)









Slide 43

Enterprise Village – Economic Math Essentials


Robbie wants to give his mom a dozen roses for Mother's Day. A dozen roses at Grocery Mart costs \$19.99. However, a single rose at Al's Floral Mart costs \$1.50. If Robbie bought a dozen single roses at Al's, would it be more expensive or less expensive than buying a dozen roses at Grocery Mart? Explain your thinking.

Slide 46

Enterprise Village – Economic Math Essentials

Jacy has \$37.00 in her checking account. She uses her debit card at the store to buy a new DVD for \$17.95. Has she spent more or less than one-half of her money? Explain your thinking.






Slide 44

Enterprise Village – Economic Math Essentials



Missy has a pillow making business. She makes monster pillows that cost \$2.50 each to make. If she charges \$5.50 for each monster pillow, and she sells 15 pillows, what would be profit?





Slide 47

Enterprise Village – Economic Math Essentials

Phillip wants to purchase a new diamond-tail long board skateboard for \$64.99. He has saved \$16.00 in his savings account and makes \$12.00 a day working at his uncle's hardware store. Phillip's mother requires him to save \$1.50 out of every \$24.00 he earns. How many days will Phillip need to work in order to earn enough money to purchase the skateboard?










Slide 45

Enterprise Village – Economic Math Essentials

Leighton gives private soccer lessons. If he charges \$15.00 an hour for each lesson, how many hours would it take him to make \$456.00?

Slide 48



**Slide 43** - Lori has about \$200.00 in her bank account. She wants to take 6 friends to a football game and the tickets cost \$26.00 a person. Does she have enough money? (Estimate)

**Answer:** *Yes, Lori has enough money. Four tickets would cost about \$100.00, so she has almost enough money to buy 8 tickets. She only needs 6 tickets.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 3, 4**

**Slide 44** - Jacy has \$37.00 in her checking account. She uses her debit card at the store to buy a new DVD for \$17.95. Has she spent more or less than one-half of her money? Explain your thinking.

**Answer:** *Jacy has spent less than one-half of her money. The amount of \$17.95 is almost \$18.00, and when \$18.00 is doubled, the amount would be \$36.00. Jacy spent less than \$18.00, so she spent less than half of her money.*

**Content Standards: MAFS.5.NBT.2.7; MAFS.5.NF.2.4**

**Mathematical Practices to be emphasized: 1, 2**

**Slide 45** - Phillip wants to purchase a new diamond-tail long board skateboard for \$64.99. He has saved \$16.00 in his savings account and makes \$12.00 a day working at his uncle's hardware store. Phillip's mother requires him to save \$1.50 out of every \$24.00 he earns. How many days will Phillip need to work in order to earn enough money to purchase the skateboard?

**Answer:** *Phillip will need to work 5 days in order to have enough money for the diamond tail skateboard.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 5**

**Slide 46** - Robbie wants to give his mom a dozen roses for Mother's Day. A dozen roses at Grocery Mart costs \$19.99. However, a single rose at Al's Floral Mart costs \$1.50. If Robbie bought a dozen single roses at Al's, would it be more expensive or less expensive than buying a dozen roses at Grocery Mart? Explain your thinking.

**Answer:** *It would cost Robbie \$18.00 to buy 12 roses at Al's which is less expensive than purchasing a dozen roses at Grocery Mart. Explanations will vary.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 3, 4**

**Slide 47** - Missy has a pillow making business. She makes monster pillows that cost \$2.50 each to make. If she charges \$5.50 for each monster pillow, and she sells 15 pillows, what would be her profit?

**Answer:** *Missy would make a profit of \$45.00 on the sale of 15 pillows.*

**Content Standard( MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 4**

**Slide 48** - Leighton gives private soccer lessons. If he charges \$15.00 an hour for each lesson, how many hours would it take him to make \$456.00?


**Answer:** *Leighton would need to give 31 lessons of 1 hour each in order to make \$456.00.*

**Content Standard: MAFS.5.NBT.2.6**


**Mathematical Practices to be emphasized: 1, 2, 4**




Enterprise Village – Economic Math Essentials

Determine whether the answer to each of these problems is reasonable. If an answer is not reasonable, explain why.

 a) Shiker's Alley let you bowl 5 games for \$8.85. What is the cost of each game?  
**Answer: The cost of each game is \$1.25**

b) Julia bought 3 pairs of boots for \$78.00 and sold them for \$45.00 per pair. How much profit did she make?  
**Answer: Julia made a profit of \$57.00**







  

Slide 49

Enterprise Village – Economic Math Essentials


At a garage sale, Jasmine bought 6 old dolls for \$14.00 and fixed them up for resale. She then resold them for \$3.75 each. How much profit did she make on the 6 dolls?






Slide 52

Enterprise Village – Economic Math Essentials

 These problems have the numbers omitted. Identify the operation or operations needed to solve each problem. Then write an equation to solve the problems and solve them.

a) You can purchase individual bracelet charms at their regular price or in a special package of 6 at a sale price. How much do you save by purchasing the special package?


b) Hooper's Sports Shop sold 4 times as many baseballs than All Sports. How many more baseballs did Hooper's sell than All Sports?




  

Slide 50

Enterprise Village – Economic Math Essentials

Mr. Guerra wants to sell 12 baby pigs. How much should he sell each pig for if he needs to make \$375.00?







  

Slide 53

Enterprise Village – Economic Math Essentials


If Lamont bought a mini-bike for \$120, sold it for \$130, bought it again for \$140, and then resold it for \$150, how much money did he make?






Slide 51

Enterprise Village – Economic Math Essentials

 Jessica counted the cards she had for sale. She counted more than 40 cards, but less than 70. When she put them in bundles of 5, she had 1 left over. When she put them in bundles of 4, she had 1 left over. When she put them in bundles of 3, she had 1 left over. How many cards did Jessica have to sell?

Slide 54

**Slide 49** - Determine whether the answer to each of these problems is reasonable. If an answer is not reasonable, explain why.

- a. Striker's Alley lets you bowl 5 games for \$8.85. What is the cost of each game?

**Answer:** *The cost of each game is \$1.25. This answer is not reasonable because  $5 \times \$1.00 = \$5.00$  and  $5 \times \$0.25 = \$1.25$ , thus 5 games would cost only \$6.25.*

- b. Julia bought 3 pairs of boots for \$78.00 and sold them for \$45.00 per pair. How much profit did she make?

**Answer:** *Julia made a profit of \$57.00. This answer is reasonable because, Julie paid \$78.00 for the 3 pairs of boots and sold the boots for \$45.00 a pair  $\times 3$  pairs which = \$135.00. The difference between \$135.00 and \$78.00 is \$57.00*

**Content Standards: MAFS.5.NBT.2.6 and 2.7**  
**Mathematical Practices to be emphasized: 2, 4, 6**

**Slide 50** - These problems have the numbers omitted. Identify the operation or operations needed to solve each problem. Then write an equation to solve each problem and solve it.

- a. You can purchase individual bracelet charms at their regular price or in a special package of 6 at a sale price. How much do you save by purchasing the special package?  
b. Hooper's Sports Shop sold 4 times as many baseballs than All Sports. How many more baseballs did Hooper's sell than All Sports?

**Answer:** *Multiplication and subtraction; Answers will vary depending on the numbers used.*

**Content Standards: MAFS.5.NBT.2.7; building on previous work on MAFS.4.OA.1.2**  
**Mathematical Practices to be emphasized: 1, 2, 3, 4**

**Slide 51** - If Lamont bought a mini-bike for \$120, sold it for \$130, bought it again for \$140, and then resold it for \$150, how much money did he make?

**Answer:** *Lamont made \$20.00 by buying and reselling the mini-bike.*

**Content Standard: MAFS.5.NBT.2.7**  
**Mathematical Practices to be emphasized: 1, 4, 7**

**Slide 52** - At a garage sale, Jasmine bought 6 old dolls for a total of \$14.00 and fixed them up for resale. She then resold them for \$3.75 each. How much profit did Jasmine make on the 6 dolls?

**Answer:** *Jasmine made a profit of \$8.50 on the 6 dolls.*

**Content Standard: MAFS.5.NBT.2.7**  
**Mathematical Practices to be emphasized: 2, 4, 6**

**Slide 53** - Mr. Guerra wants to sell 12 baby pigs. How much should he sell each pig for if he needs to make \$375?

**Answer:** *Mr. Guerra will need to sell each piglet for \$31.25 in order to make a profit of \$300.00.*

**Content Standard: MAFS.5.NBT.2.6**  
**Mathematical Practices to be emphasized: 2, 3, 6**





**Slide 54** - Jessica counted the cards she had for sale. She counted more than 40 cards, but less than 70. When she put them in bundles of 5, she had 1 left over. When she put them in bundles of 4, she had 1 left over. When she put them in bundles of 3, she had 1 left over. How many cards did Jessica have to sell?

**Answer:** *Jessica had 61 cards to sell at the craft fair. 61 divided by 5 equals 12 with 1 left over. 61 divided by 4 equals 15 with a remainder of 1, and 61 divided by 3 equals 20 with 1 left over.*

**Content Standards: Building on previous work on MAFS.4.OA.2.4; MAFS.6.NS.2.4**  
**Mathematical Practices to be emphasized: 1, 2, 5, 6**

Enterprise Village – Economic Math Essentials

Daneshia wants to buy chocolate chip cookies at Yummies Cookie Café. They are on sale for \$0.65 each, but for every 3 cookies she buys, she gets one free. Daneshia spent \$3.90. How many cookies did she get for her \$3.90?

Slide 55

Enterprise Village – Economic Math Essentials

The owner of the vegetable market buys apples for \$0.18 each. How much does he have to sell each apple for in order to make a profit of exactly \$0.45 on 9 apples?










Slide 58

Enterprise Village – Economic Math Essentials





Reggie and Craig bought an old bicycle for \$10.00. They decided to repair it. They spent \$7.54 on a new seat, paint for \$3.42 and \$6.50 for a new chain. If they sold the repaired bike for \$40.00 and shared the profit equally, how much money did each boy make?

Slide 56

Enterprise Village – Economic Math Essentials





Chuck bought a booklet of tickets for the carnival rides at a cost \$0.35 per ticket. He gave  $\frac{1}{4}$  of the tickets to Blake. Then he gave half of what he had left to Sandra. After that, he had 6 tickets for himself. How many tickets were in the booklet that he bought? How much did the booklet of tickets cost Chuck?

Slide 59

Enterprise Village – Economic Math Essentials





Mr. Whiteside, the math teacher at Lakeside School wants to buy 30 new calculators and has \$400.00 to spend. The calculators regularly cost \$15.75, but are on sale for \$11.95 each. How much will Mr. Whiteside save by purchasing the calculators at the sale price?

Slide 57

Enterprise Village – Economic Math Essentials

Butler Manufacturing makes very strong storage bags from two sheets of plastic combined. When bonded together the sheets have a combined thickness of 0.05 inches. The first sheet used is 0.0345 inches thick. Which sheet is thicker? How much thicker?

Slide 60

**Slide 55** - Daneshia wants to buy chocolate chip cookies at Yummies Cookie Café. They are on sale for \$0.65 each, but for every 3 cookies she buys, she gets one free. Daneshia spent \$3.90. How many cookies did she get for her \$3.90?

**Answer:** *Daneshia received 8 cookies for her \$3.90. She purchased 6 cookies for \$3.90 and got 2 free.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 3, 4**

**Slide 56** - Reggie and Craig bought an old bicycle for \$10.00. They decided to repair it. They spent \$7.54 on a new seat, paint for \$3.42 and \$6.50 for a new chain. If they sold the repaired bike for \$40.00 and shared the profit equally, how much money did each boy make?

**Answer:** *Each boy made a profit of \$6.27. The cost of the bike and materials was \$27.46. They sold the bike for \$40.00, leaving them with \$12.54 to split between the two of them which equals a profit of \$6.27 each.*

**Content Standards: MAFS.5.NBT.2.6; MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 4, 7**

**Slide 57** - Mr. Whiteside, the math teacher at Lakeside School wants to buy 30 new calculators and has \$400.00 to spend. The calculators regularly cost \$15.75, but are on sale for \$11.95 each. How much will Mr. Whiteside save by purchasing the calculators at the sale price?

**Answer:** *Mr. Whiteside will save \$114.00 by purchasing the calculators on sale.*

**Content Standard: MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 2, 3, 7**

**Slide 58** - The owner of the vegetable market buys apples for \$0.18 each. How much does he have to sell each apple for in order to make a profit of exactly \$0.45 on 9 apples?

**Answer:** *The owner of the vegetable market will need to sell each apple for \$0.23 in order to make a profit of \$0.45 on the 9 apples. He must sell each of the 9 apples for \$0.05 more than he paid for it in order to make a profit of \$0.45 on all 9 apples.  $\$0.18 + \$0.05 = \$0.23$ .*

**Content Standards: MAFS.5.NBT.2.6; MAFS.5.NBT.2.7**

**Mathematical Practices to be emphasized: 1, 2, 3, 7**

**Slide 59** - Chuck bought a booklet of tickets for the carnival rides at a cost of \$0.35 per ticket. He gave  $\frac{1}{4}$  of the tickets to Blake. Then he gave half of what he had left to Sandra. After that, he had 6 tickets for himself. How many tickets were in the booklet that he bought? How much did the booklet of tickets cost Chuck?

**Answer:** *There were 16 tickets in the booklet that Chuck bought for the carnival rides. The booklet of tickets cost \$5.60*

**Content Standards: MAFS.5.NBT.2.7; building on previous work on MAFS.4.NF.2.4**

**Mathematical Practices to be emphasized: 1, 2, 4, 6**


**Slide 60** - Butler Manufacturing makes very strong storage bags from two sheets of plastic combined. When bonded together the sheets have a combined thickness of 0.05 inches. The first sheet used is 0.0345 inches thick. Which sheet is thicker? How much thicker?





**Answer:** *Sheet 1 is 0.019 inches thicker than sheet 2.*

**Content Standard: MAFS.5.NBT.1.3; building on previous work on MAFS.4.NF.3.7**

**Mathematical Practices to be emphasized: 1, 2, 4, 5, 7**

Enterprise Village – Economic Math Essentials





 Erica washes cars for \$10.00. This past weekend, she washed 12 cars. She charges an extra five dollars to clean the inside of the car. If she cleaned the inside of 3 of the cars, how much money did she earn this past weekend?

Slide 61

Enterprise Village – Economic Math Essentials





Zachary has  $\frac{1}{100}$  of the money his sister has. His sister has \$365.00. How much money does Zachary have? Explain how you got your answer.

Slide 64

Enterprise Village – Economic Math Essentials





Lance has \$2.65 in his pocket. He wants to buy candles that cost \$0.32 each. How many candles will he be able to purchase? Use base ten blocks to draw a diagram to illustrate your calculations.

Slide 62

Enterprise Village – Economic Math Essentials

Darian had a balance of \$76.50 in her savings account at the beginning of October. She made 3 deposits of \$15.00 each during the month. On the 10<sup>th</sup> of the month, she made a withdrawal of \$12.00 to buy a gift for her sister. They paid her 3% interest on her balance at the end of the month. What was Darian's ending balance for the month?

Slide 65

Enterprise Village – Economic Math Essentials

Laura loves milk and cookies! She wants to invite some friends over to have a party and buys 3 gallons of milk at \$3.56 a gallon and 3 packages of chocolate chip cookies for \$2.50 each. How much money does she spend in all?

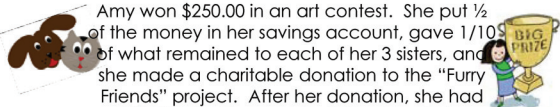








Slide 63

Enterprise Village – Economic Math Essentials

Amy won \$250.00 in an art contest. She put  $\frac{1}{2}$  of the money in her savings account, gave  $\frac{1}{10}$  of what remained to each of her 3 sisters, and she made a charitable donation to the "Furry Friends" project. After her donation, she had \$50.00 left. How much did she donate to charity?

Slide 66

**Slide 61** - Erica washes cars for \$10.00. This past weekend, she washed 12 cars. She charges an extra five dollars to clean the inside of the car. If she cleaned the inside of 3 of the cars, how much money did she earn this past weekend?

**Answer:** *Erica earned \$135.00 this weekend washing cars.*

**Content Standard:** MAFS.5.NBT.2.7

**Mathematical Practices to be emphasized:** 1, 2, 5

**Slide 62** - Lance has \$2.65 in his pocket. He wants to buy candles that cost \$0.32 each. How many candles will he be able to purchase? Use base ten blocks to draw a diagram to illustrate your calculations.

**Answer:** *Lance will be able to purchase 8 candles with the \$2.65 in his pocket.*

**Content Standard:** MAFS.5.NBT.2.7

**Mathematical Practices to be emphasized:** 2, 3

**Slide 63** - Laura loves milk and cookies! She wants to invite some friends over to have a party and buys 3 gallons of milk at \$3.56 a gallon and 3 packages of chocolate chip cookies for \$2.50 each. How much money does she spend in all?

**Answer:** *Laura spends \$18.18 in all on the milk and cookies for her party.*

**Content Standard:** MAFS.5.NBT.2.7

**Mathematical Practices to be emphasized:** 2, 4

**Slide 64** - Zachary has  $\frac{1}{100}$  of the money his sister has. His sister has \$365.00. How much money does Zachary have? Explain how you got your answer?

**Answer:** *Zachary has \$3.65. Explanations will vary.*

**Content Standard:** MAFS.5.NBT.1.1

**Mathematical Practices to be emphasized:** 2, 6, 7

**Slide 65** - Darian had a balance of \$76.50 in her savings account at the beginning of October. She made 3 deposits of \$15.00 each during the month. On the 10th of the month, she made a withdrawal of \$12.00 to buy a gift for her sister. The bank paid her 3% interest on her balance at the end of the month. What was Darian's ending balance for the month?

**Answer:** *Darian had a balance of \$112.79 at the end of the month.  $\$76.50 + \$45.00 (3 \times \$15.00) = \$121.50$ .  $\$121.50 - \$12.00 = \$109.50$ . Interest at 3% on \$109.50 = \$3.29 (3.2850 rounded)  $\$109.50 + \$3.29 = \$112.79$ .*

**Content Standard:** MAFS.5.NBT.2.7

**Mathematical Practices to be emphasized:** 2, 4, 7

**Slide 66** - Amy won \$250.00 in an art contest. She put  $\frac{1}{2}$  of the money in her savings account, gave  $\frac{1}{10}$  of what remained to each of her 3 sisters, and made a charitable donation to the "Furry Friends" project. After her donation, she had \$50.00 left. How much did she donate to the charity?

**Answer:** *Amy donated \$37.50 to the "Furry Friends" project.*

**Content Standard:** MAFS.5.NBT.2.7

**Mathematical Practices to be emphasized:** 2, 3, 4, 7