	Examining Percent Increase and Decrease Name:		
Solv	e each problem.		Answers
1)	A small fruit smoothie is 11 ounces while a large fruit smoothie is 13.86 ounces. The large fruit smoothie is% larger.	1.	
		2.	
2)	In February Robin got a puppy that weighed 13 kilograms. By October the puppy weighed 18.46 kilograms. What was the percent the puppy's weight increased?	3.	

- 3) It used to take Rachel 10 minutes to do 20 multiplication problems. Now she can do the same page in 13.4 minutes. She is now _____ percent faster.
- A large soda is 286 calories and a small soda is 240.24 calories. The small soda has _____ percent fewer calories.
 7. _____
- 5) A pole was supposed to be 16 meters long, but it was accidentally made 20.48 meters long. The pole is _____ percent longer than it needs to be.
- 6) The price for internet on a phone was \$7 a month, but starting in November the price will be \$10.36 a month. This is a _____% increase.
- 7) Last year a fishing license cost \$53. This year the license will cost \$33.92. This is a _____ percent decrease.
- 8) A store normally averaged 165 customers a day. But on the weekends they averaged 128.7 customers a day. What is the percent decrease in the number of customers?
- **9)** A library normally collected \$49 in fees a month. But in March they collected \$73.5. What is the percent increase in the number of fees collected in March?

10) A game normally cost \$50, but Gwen used a coupon and got the game for \$29. The coupon was for _____ percent off.

		swer Key
	e each problem.	<u>Answers</u>
1)	A small fruit smoothie is 11 ounces while a large fruit smoothie is 13.86 ounces. The large fruit smoothie is% larger.	1. 26
		2
2)	In February Robin got a puppy that weighed 13 kilograms. By October the puppy weighed 18.46 kilograms. What was the percent the puppy's weight increased?	3
		416
3)	It used to take Rachel 10 minutes to do 20 multiplication problems. Now she can do the same page in 13.4 minutes. She is now percent faster.	5. 28
•		6. <u>48</u>
4)	A large soda is 286 calories and a small soda is 240.24 calories. The small soda has percent fewer calories.	7. 36
5)	A note was supposed to be 16 meters long, but it was assidentally made 20.48 meters long	8
5)	A pole was supposed to be 16 meters long, but it was accidentally made 20.48 meters long. The pole is percent longer than it needs to be.	9
6)	The price for internet on a phone was \$7 a month, but starting in November the price will be \$10.36 a month. This is a% increase.	10. 42
7)	Last year a fishing license cost \$53. This year the license will cost \$33.92. This is a percent decrease.	
8)	A store normally averaged 165 customers a day. But on the weekends they averaged 128.7 customers a day. What is the percent decrease in the number of customers?	
9)	A library normally collected \$49 in fees a month. But in March they collected \$73.5. What is the percent increase in the number of fees collected in March?	
10)	A game normally cost \$50, but Gwen used a coupon and got the game for \$29. The coupon was for percent off.	

		Examining Pe	rcent Increase a	nd Decrease	Name:	
Solv	e each problem.	8 - •				Answers
\bigcap	28	36	42	42	34	
	48	22	26	16	50	1
1)	A small fruit smo fruit smoothie is		es while a large fru	it smoothie is 13.8	36 ounces. The large	2
2)	•		at weighed 13 kilog prcent the puppy's v		the puppy weighed	4.
3)			to do 20 multiplica now percer	ation problems. No nt faster.	w she can do the	5. 6.
4)	A large soda is 28 percent fewer cal		small soda is 240.	24 calories. The sn	nall soda has	7. 8.
5)			ters long, but it wa than it needs to be.	•	e 20.48 meters long.	9. 10.
6)	The price for inte be \$10.36 a mont	-		it starting in Nove	mber the price will	
7)	Last year a fishin percent decrease.	g license cost \$5	3. This year the lic	ense will cost \$33	.92. This is a	
8)	•	0	•	on the weekends to number of custom	they averaged 128.7 ers?	
9)	•	•	n fees a month. Bu per of fees collecte	•	ollected \$73.5. What	
10)	A game normally coupon was for _		wen used a coupon	and got the game	for \$29. The	

	Examining Percent Increase and Decrease Name:		
Solv	e each problem.		Answers
1)	In February Haley got a puppy that weighed 14 kilograms. By October the puppy weighed 18.76 kilograms. What was the percent the puppy's weight increased?	1	
		2.	
2)	Normally a game costs \$36. But the new special edition version is going to be \$48.24. This is an increase of percent.	3.	

		4.
3)	A library normally collected \$41 in fees a month. But in March they collected \$46.74. What is the percent increase in the number of fees collected in March?	5
4)	A pole was supposed to be 14 meters long, but it was accidentally made 15.96 meters long. The pole is percent longer than it needs to be.	6 7
5)	In the spring the average score for a division worksheet was 73. But back in the fall the average score was 65.7. The fall score was% lower than the spring score.	8 9
6)	A large soda is 290 calories and a small soda is 237.8 calories. The small soda has percent fewer calories.	10
7)	In February Ned spent 48 hours watching Netflix. In March he only spent 39.36 hours watching. What was the percent decrease in the amount of time he spent watching?	
8)	A store normally averaged 143 customers a day. But on the weekends they averaged 97.24 customers a day. What is the percent decrease in the number of customers?	
9)	Last year a fishing license cost \$51. This year the license will cost \$45.9. This is a percent decrease.	
10)	Last month Henry spent 92 dollars on games. This month he only spent \$62.56. He spent percent less this month.	

ſ		
		swer Key
Solv	e each problem.	<u>Answers</u>
1)	In February Haley got a puppy that weighed 14 kilograms. By October the puppy weighed 18.76 kilograms. What was the percent the puppy's weight increased?	134
		234
2)	Normally a game costs \$36. But the new special edition version is going to be \$48.24. This is an increase of percent.	3
		4. 14
3)	A library normally collected \$41 in fees a month. But in March they collected \$46.74. What is the percent increase in the number of fees collected in March?	5. 10
		6. 18
4)	A pole was supposed to be 14 meters long, but it was accidentally made 15.96 meters long. The pole is percent longer than it needs to be.	7. 18
		8. 32
5)	In the spring the average score for a division worksheet was 73. But back in the fall the average score was 65.7. The fall score was% lower than the spring score.	9. <u>10</u>
		10 32
6)	A large soda is 290 calories and a small soda is 237.8 calories. The small soda has percent fewer calories.	10. 32
7)	In February Ned spent 48 hours watching Netflix. In March he only spent 39.36 hours watching. What was the percent decrease in the amount of time he spent watching?	
8)	A store normally averaged 143 customers a day. But on the weekends they averaged 97.24 customers a day. What is the percent decrease in the number of customers?	
9)	Last year a fishing license cost \$51. This year the license will cost \$45.9. This is a percent decrease.	
10)	Last month Henry spent 92 dollars on games. This month he only spent \$62.56. He spent percent less this month.	

		Examining Pe	rcent Increase a	and Decrease	Name:	
Solv	e each probler					Answers
\square	34	10	10	14	18	
	14	32	34	32	18	1
1)		aley got a puppy then no. What was the pe			the puppy weighed	2
2)		ume costs \$36. But t of percent.	he new special edi	tion version is goin	g to be \$48.24. This	4
3)	•	nally collected \$41 ercent increase in the		•	llected \$46.74.	6
4)	-	pposed to be 14 me percent longer	-	-	e 15.96 meters long.	7. 8.
5)		he average score for was 65.7. The fall s				9 10
6)	A large soda i percent fewer	s 290 calories and a calories.	small soda is 237	.8 calories. The sma	all soda has	
7)	•	Ted spent 48 hours wat was the percent d	-	• •		
8)		ally averaged 143 cu ay. What is the perc	•		hey averaged 97.24 ers?	
9)	Last year a fis percent decrea	hing license cost \$5 ase.	1. This year the li	cense will cost \$45.	9. This is a	
10)		enry spent 92 dollar t less this month.	s on games. This 1	nonth he only spent	t \$62.56. He spent	
						I , , , , , , , , , , , , , , , , , , ,

Examining Percent Increase and Decrease

		_	
Solv	e each problem.		<u>Answers</u>
1)	Last years phone model had a battery that lasted 15 hours. This year the battery only last for 11.4 hours. What was the percent the battery life decreased?	1.	
		2.	
2)	A large soda is 209 calories and a small soda is 158.84 calories. The small soda has percent fewer calories.	3.	
		4.	
3)	Janet's family decided to get rid of their cable TV. Originally they were paying \$80 for the TV, internet and phone, but now they're paying \$65.6. What was the percent the bill	5.	
	decreased by?	6.	
4)	A small fruit smoothie is 24 ounces while a large fruit smoothie is 33.6 ounces. The large fruit smoothie is% larger.	7.	
		8.	
5)	A store normally averaged 164 customers a day. But on the weekends they averaged 85.28 customers a day. What is the percent decrease in the number of customers?	9.	
		10.	
6)	Haley bought a computer for \$205.26. Kaleb bought one for \$311. Haley's computer was percent cheaper.	10.	
7)	A store sold 14 dollars worth of gift cards in October. The next month the goal was to sell \$19.32 worth of gift cards. This is an increase of percent.		
8)	Edward used to have \$432 in the bank but after a year the amount increased to \$613.44. This was an increase of%.		
9)	In February Will spent 40 hours watching Netflix. In March he only spent 28 hours watching. What was the percent decrease in the amount of time he spent watching?		
10)	The price for internet on a phone was \$9 a month, but starting in November the price will be \$12.24 a month. This is a% increase.		

	Examining Demonst Insurance and Destroops	newor Koy
Solv	Examining Percent Increase and Decrease Name: A e each problem.	nswer Key Answers
	Last years phone model had a battery that lasted 15 hours. This year the battery only last for 11.4 hours. What was the percent the battery life decreased?	1. <u>24</u>
2)	A large soda is 209 calories and a small soda is 158.84 calories. The small soda has percent fewer calories.	2. 24 3. 18
3)	Janet's family decided to get rid of their cable TV. Originally they were paying \$80 for the TV, internet and phone, but now they're paying \$65.6. What was the percent the bill decreased by?	4. <u>40</u> 5. <u>48</u>
4)	A small fruit smoothie is 24 ounces while a large fruit smoothie is 33.6 ounces. The large fruit smoothie is% larger.	6. <u>34</u> 7. <u>38</u>
5)	A store normally averaged 164 customers a day. But on the weekends they averaged 85.28 customers a day. What is the percent decrease in the number of customers?	8. 42 9. 30
6)	Haley bought a computer for \$205.26. Kaleb bought one for \$311. Haley's computer was percent cheaper.	10. 36
7)	A store sold 14 dollars worth of gift cards in October. The next month the goal was to sell \$19.32 worth of gift cards. This is an increase of percent.	
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9)	In February Will spent 40 hours watching Netflix. In March he only spent 28 hours watching. What was the percent decrease in the amount of time he spent watching?	
10)	The price for internet on a phone was \$9 a month, but starting in November the price will be \$12.24 a month. This is a% increase.	

		Examining Pe	rcent Increase a	and Decrease	Name:		
Solv	e each problem						Answers
\square	40	24	24	36	38		
	42	48	30	18	34	1.	
1)	• •	ne model had a batt What was the perc	•	hours. This year the decreased?	e battery only last	2	
2)	A large soda is percent fewer of		small soda is 158	8.84 calories. The sn	nall soda has	4.	
3)	•	U		Originally they were 5.6. What was the pe	e paying \$80 for the ercent the bill	5 6	
4)		moothie is 24 ounce is% larger.	es while a large fr	uit smoothie is 33.6	ounces. The large	7 8	
5)			-	ut on the weekends t e number of custom	they averaged 85.28 hers?	9 10	
6)	Haley bought a	-	5.26. Kaleb bough	nt one for \$311. Hal	ey's computer was		
7)		dollars worth of g of gift cards. This is		er. The next month percent.	the goal was to sell		
8)		b have \$432 in the l crease of%.	oank but after a ye	ear the amount incre	eased to \$613.44.		
9)	•	-	-	In March he only sp ount of time he sper			
10)	-	nternet on a phone yonth. This is a		out starting in Nover	mber the price will		

Solv	e each problem.	<u>Answers</u>
1)	In the spring the average score for a division worksheet was 55. But back in the fall the average score was 30.8. The fall score was% lower than the spring score.	1
		2
2)	It used to take Lana 8 minutes to do 20 multiplication problems. Now she can do the same page in 10.88 minutes. She is now percent faster.	3
		4
3)	A game normally cost \$57, but Janet used a coupon and got the game for \$35.34. The coupon was for percent off.	5
		6
4)	Debby's family decided to get rid of their cable TV. Originally they were paying \$141 for the TV, internet and phone, but now they're paying \$93.06. What was the percent the bill decreased by?	7
-		8
5)	Adam spent 25 minutes on his math homework and 31.5 minutes on his spelling homework. He spent percent more time on his spelling homework.	9
6		10
6)	Last year a fishing license cost \$53. This year the license will cost \$37.1. This is a percent decrease.	
7)	Normally a game costs \$32. But the new special edition version is going to be \$37.76. This is an increase of percent.	
8)	Maria used to live 14 kilometers away from the school, but after she moved she now lives 9.52 kilometers away. She is percent closer to the school.	
9)	Ned used to have \$406 in the bank but after a year the amount increased to \$479.08. This was an increase of%.	
10)	A library normally collected \$31 in fees a month. But in March they collected \$42.78. What is the percent increase in the number of fees collected in March?	

Solve each problem. Answer 1) In the spring the average score for a division worksheet was 55. But back in the fall the average score was 30.8. The fall score was% lower than the spring score. 144 2) It used to take Lana 8 minutes to do 20 multiplication problems. Now she can do the same page in 10.88 minutes. She is now percent faster. 338 3) A game normally cost \$57, but Janet used a coupon and got the game for \$35.34. The coupon was for percent off. 434 4) Debby's family decided to get rid of their cable TV. Originally they were paying \$141 for the TV, internet and phone, but now they're paying \$93.06. What was the percent the bill decreased by? 718 5) Adam spent 25 minutes on his math homework and 31.5 minutes on his spelling homework. He spent percent more time on his spelling homework. 918 6) Last year a fishing license cost \$53. This year the license will cost \$37.1. This is a 1038 7) Normally a game costs \$32. But the new special edition version is going to be \$37.76. This is an increase of percent. 8 8) Maria used to live 14 kilometers away from the school, but after she moved she now lives 9.52 kilometers away. She is percent closer to the school. 9) Ned used to have \$406 in the bank but after a year the amount increased to \$479.08. This was an increase of%. 10) A library normally collected \$31 in fees a month. But in March they collected \$42.78. What is the percent increase in the number of fees collected i		Examining Percent Increase and Decrease Name: A	1SW)	er Key
 1) In the spring the average score for a division worksheet was 55. But back in the fall the average score was 30.8. The fall score was% lower than the spring score. 2) It used to take Lana 8 minutes to do 20 multiplication problems. Now she can do the same page in 10.88 minutes. She is now percent faster. 3) A game normally cost \$57, but Janet used a coupon and got the game for \$35.34. The coupon was for percent off. 44. 30 A game normally decided to get rid of their cable TV. Originally they were paying \$141 for the TV, internet and phone, but now they're paying \$93.06. What was the percent the bill decreased by? 5) Adam spent 25 minutes on his math homework and 31.5 minutes on his spelling homework. He spent percent more time on his spelling homework. 6) Last year a fishing license cost \$53. This year the license will cost \$37.1. This is a 7) Normally a game costs \$32. But the new special edition version is going to be \$37.76. This is an increase of percent closer to the school. 8) Maria used to live 14 kilometers away from the school, but after she moved she now fives 9.52 kilometers away. She is percent closer to the school. 9) Ned used to have \$406 in the bank but after a year the amount increased to \$479.08. This was an increase of%. 	Solv			Answers
 2) It used to take Lana 8 minutes to do 20 multiplication problems. Now she can do the same page in 10.88 minutes. She is now percent faster. 3. 38 4. 34 3) A game normally cost \$57, but Janet used a coupon and got the game for \$35.34. The coupon was for percent off. 4) Debby's family decided to get rid of their cable TV. Originally they were paying \$141 for the TV, intermet and phone, but now they're paying \$93.06. What was the percent the bill decreased by? 5) Adam spent 25 minutes on his math homework and 31.5 minutes on his spelling homework. He spent percent more time on his spelling homework. 6) Last year a fishing license cost \$53. This year the license will cost \$37.1. This is a percent decrease. 7) Normally a game costs \$32. But the new special edition version is going to be \$37.76. This is an increase of percent. 8) Maria used to live 14 kilometers away from the school, but after she moved she now lives 9.52 kilometers away. She is percent closer to the school. 9) Ned used to have \$406 in the bank but after a year the amount increased to \$479.08. This was an increase of%. 10) A library normally collected \$31 in fees a month. But in March they collected \$42.78. 	1)		1.	44
 page in 10.88 minutes. She is now percent faster. 338 434 338 434 336 338 434 336 434 566 30 430 434 566 30 718 832 5. Adam spent 25 minutes on his math homework and 31.5 minutes on his spelling homework. He spent percent more time on his spelling homework. 630 918 1038 60 Last year a fishing license cost \$53. This year the license will cost \$37.1. This is a percent decrease. 71 Normally a game costs \$32. But the new special edition version is going to be \$37.76. This is an increase of percent. 80 Maria used to live 14 kilometers away from the school, but after she moved she now lives 9.52 kilometers away. She is percent closer to the school. 90 Ned used to have \$406 in the bank but after a year the amount increased to \$479.08. This was an increase of%. 10) A library normally collected \$31 in fees a month. But in March they collected \$42.78. 	2)	It used to take I and 8 minutes to do 20 multiplication problems. Now she can do the same	2.	36
 3) A game normally cost \$57, but Janet used a coupon and got the game for \$35.34. The coupon was for percent off. 4) Debby's family decided to get rid of their cable TV. Originally they were paying \$141 for the TV, internet and phone, but now they're paying \$93.06. What was the percent the bill decreased by? 5) Adam spent 25 minutes on his math homework and 31.5 minutes on his spelling homework. He spent percent more time on his spelling homework. He spent percent more time on his spelling homework. 6) Last year a fishing license cost \$53. This year the license will cost \$37.1. This is a percent decrease. 7) Normally a game costs \$32. But the new special edition version is going to be \$37.76. This is an increase of percent. 8) Maria used to live 14 kilometers away from the school, but after she moved she now lives 9.52 kilometers away. She is percent closer to the school. 9) Ned used to have \$406 in the bank but after a year the amount increased to \$479.08. This was an increase of%. 10) A library normally collected \$31 in fees a month. But in March they collected \$42.78. 	2)		3.	
 a) Debby's family decided to get rid of their cable TV. Originally they were paying \$141 for the TV, internet and phone, but now they're paying \$93.06. What was the percent the bill decreased by? b) Adam spent 25 minutes on his math homework and 31.5 minutes on his spelling homework. He spent percent more time on his spelling homework. c) Last year a fishing license cost \$53. This year the license will cost \$37.1. This is a percent decrease. c) Normally a game costs \$32. But the new special edition version is going to be \$37.76. This is an increase of percent. d) Maria used to live 14 kilometers away from the school, but after she moved she now lives 9.52 kilometers away. She is percent closer to the school. e) Ned used to have \$406 in the bank but after a year the amount increased to \$479.08. This was an increase of %. 10) A library normally collected \$31 in fees a month. But in March they collected \$42.78. 	3)			
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 6 Last year a fishing license cost \$53. This year the license will cost \$37.1. This is a 7 Normally a game costs \$32. But the new special edition version is going to be \$37.76. This is an increase of percent. 8 Maria used to live 14 kilometers away from the school, but after she moved she now lives 9.52 kilometers away. She is percent closer to the school. 9 Ned used to have \$406 in the bank but after a year the amount increased to \$479.08. This was an increase of%. 10 A library normally collected \$31 in fees a month. But in March they collected \$42.78. 	5)	•		
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	9)	•		
	10)			

		Examining Pe	rcent Increase a	nd Decrease	Name:	
Solv	e each problei					Answers
\bigcap	18	38	44	26	18	
	36	34	38	32	30	1
1)		the average score for was 30.8. The fall s				2
2)		e Lana 8 minutes to minutes. She is nov			she can do the same	4
3)	0	ally cost \$57, but Ja or percent off.	net used a coupon	and got the game f	for \$35.34. The	6
4)	•	ly decided to get rid net and phone, but no?		••••	1.0	7. 8.
5)	-	5 minutes on his ma e spent perce			1 0	9. 10.
6)	Last year a fis percent decrea	shing license cost \$5 ase.	3. This year the lic	cense will cost \$37	.1. This is a	
7)		ame costs \$32. But t of percent.	he new special edi	tion version is goir	ng to be \$37.76. This	
8)		live 14 kilometers a rs away. She is	•		oved she now lives	
9)		ave \$406 in the ban se of%.	k but after a year tl	ne amount increase	ed to \$479.08. This	
10)	•	nally collected \$31 ercent increase in the		-		

	Examining Demonst Increases and Decreases	
 Solv	Examining Percent Increase and Decrease Name:	Answers
1)	Amy used to live 15 kilometers away from the school, but after she moved she now lives 13.2 kilometers away. She is percent closer to the school.	1
2)	Last month Sam spent 58 dollars on games. This month he only spent \$51.04. He spent percent less this month.	2 3
3)	Normally a chef uses 12 ounces of chocolate to make chocolate chip cookies. But he started using 16.08 ounces instead. He should advertise the cookies as having percent more chocolate.	4 5
4)	Paige bought a computer for \$222.6. Paul bought one for \$318. Paige's computer was percent cheaper.	6 7
5)	A store sold 12 dollars worth of gift cards in October. The next month the goal was to sell \$13.92 worth of gift cards. This is an increase of percent.	8 9
6)	Normally a game costs \$35. But the new special edition version is going to be \$51.8. This is an increase of percent.	10
7)	A small fruit smoothie is 13 ounces while a large fruit smoothie is 14.56 ounces. The large fruit smoothie is% larger.	
8)	Jerry spent 20 minutes on his math homework and 24 minutes on his spelling homework. He spent percent more time on his spelling homework.	
9)	A library normally collected \$37 in fees a month. But in March they collected \$52.54. What is the percent increase in the number of fees collected in March?	
10)	Last year a fishing license cost \$50. This year the license will cost \$30. This is a percent decrease.	

			17
		ISWe	r Key
S0IV	e each problem.		<u>Answers</u>
1)	Amy used to live 15 kilometers away from the school, but after she moved she now lives 13.2 kilometers away. She is percent closer to the school.	1	12
		2	12
2)	Last month Sam spent 58 dollars on games. This month he only spent \$51.04. He spent percent less this month.	3	34
		4	30
3)	Normally a chef uses 12 ounces of chocolate to make chocolate chip cookies. But he started using 16.08 ounces instead. He should advertise the cookies as having	5	16
	percent more chocolate.	6.	48
4)	Paige bought a computer for \$222.6. Paul bought one for \$318. Paige's computer was percent cheaper.	7.	12
		8.	20
5)	A store sold 12 dollars worth of gift cards in October. The next month the goal was to sell \$13.92 worth of gift cards. This is an increase of percent.	9.	42
		10.	40
6)	Normally a game costs \$35. But the new special edition version is going to be \$51.8. This is an increase of percent.	-	
7)	A small fruit smoothie is 13 ounces while a large fruit smoothie is 14.56 ounces. The large fruit smoothie is% larger.		
8)	Jerry spent 20 minutes on his math homework and 24 minutes on his spelling homework. He spent percent more time on his spelling homework.		
9)	A library normally collected \$37 in fees a month. But in March they collected \$52.54. What is the percent increase in the number of fees collected in March?		
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		Examining Pe	rcent Increase	and Decrease	Name:		
Solv	e each problem.				i (unit)		Answers
\square	40	12	48	42	12		<u>1115 W CI 5</u>
	40	20	30	34	12	1	
1)	Amy used to liv		way from the sch	ool, but after she mo		2.	
2)		n spent 58 dollars ess this month.	on games. This m	onth he only spent \$	651.04. He spent	^{3.} _	
3)	•	.08 ounces instead		ke chocolate chip co rtise the cookies as l		5 6	
4)	Paige bought a percent c	-	2.6. Paul bought o	one for \$318. Paige's	computer was	7 8	
5)		dollars worth of g gift cards. This is		per. The next month t	the goal was to sell	9 10	
6)	• •	ne costs \$35. But t f percent.	he new special ed	lition version is goin	g to be \$51.8. This		
7)		noothie is 13 ounce s% larger.	es while a large fi	ruit smoothie is 14.5	6 ounces. The large		
8)	• •	ninutes on his mat percent more time		24 minutes on his sp nomework.	belling homework.		
9)	•	•		But in March they co collected in March?	llected \$52.54.		
10)	Last year a fishi percent decrease	-	0. This year the l	icense will cost \$30.	This is a		

Examining Percent Increase and Decrease

Name:

	Examining refeet interease and Deerease frame.	
Solv	e each problem.	<u>Answers</u>
1)	Debby used to live 10 kilometers away from the school, but after she moved she now lives 7 kilometers away. She is percent closer to the school.	1
		2
2)	Frank spent 29 minutes on his math homework and 32.48 minutes on his spelling homework. He spent percent more time on his spelling homework.	3
		4
3)	Last year a fishing license cost \$57. This year the license will cost \$41.04. This is a percent decrease.	5
		6
4)	A store sold 15 dollars worth of gift cards in October. The next month the goal was to sell \$18 worth of gift cards. This is an increase of percent.	7
		8
5)	The price for internet on a phone was \$8 a month, but starting in November the price will be \$9.92 a month. This is a% increase.	9
0		10
6)	A store normally averaged 108 customers a day. But on the weekends they averaged 75.6 customers a day. What is the percent decrease in the number of customers?	
7)	A small fruit smoothie is 30 ounces while a large fruit smoothie is 34.2 ounces. The large	
-)	fruit smoothie is% larger.	
8)	In the spring the average score for a division worksheet was 76. But back in the fall the	
	average score was 44.08. The fall score was% lower than the spring score.	
9)	Normally a game costs \$35. But the new special edition version is going to be \$40.6. This	
	is an increase of percent.	
10)	Normally a chef uses 12 ounces of chocolate to make chocolate chip cookies. But he	
	started using 13.44 ounces instead. He should advertise the cookies as having percent more chocolate.	

			•7
	Examining Percent Increase and Decrease Name: An e each problem.	SWE	er Key
1)	Debby used to live 10 kilometers away from the school, but after she moved she now lives 7 kilometers away. She is percent closer to the school.	1	Answers 30
2)	Frank spent 29 minutes on his math homework and 32.48 minutes on his spelling	2	12
	homework. He spent percent more time on his spelling homework.	3 4.	28 20
3)	Last year a fishing license cost \$57. This year the license will cost \$41.04. This is a percent decrease.	5.	24
4)	A store sold 15 dollars worth of gift cards in October. The next month the goal was to sell \$18 worth of gift cards. This is an increase of percent.	6 7	30 14
5)	The price for internet on a phone was \$8 a month, but starting in November the price will be \$9.92 a month. This is a% increase.	8 9.	42 16
6)	A store normally averaged 108 customers a day. But on the weekends they averaged 75.6	10.	12
7)	customers a day. What is the percent decrease in the number of customers? A small fruit smoothie is 30 ounces while a large fruit smoothie is 34.2 ounces. The large		
8)	fruit smoothie is% larger. In the spring the average score for a division worksheet was 76. But back in the fall the average score was 44.08. The fall score was% lower than the spring score.		
9)	Normally a game costs \$35. But the new special edition version is going to be \$40.6. This is an increase of percent.		
10)	Normally a chef uses 12 ounces of chocolate to make chocolate chip cookies. But he started using 13.44 ounces instead. He should advertise the cookies as having percent more chocolate.		

		Examining Pe	ercent Increase a	nd Decrease	Name:	
Solv	e each probler					Answers
\bigcap	30	12	24	42	30	
	12	14	28	16	20	1
1)	•	o live 10 kilometers way. She is	•		noved she now lives	2
2)	-	9 minutes on his ma e spent perce				4
3)	Last year a fis percent decrea	hing license cost \$! ase.	57. This year the lic	cense will cost \$41.	04. This is a	6
4)		5 dollars worth of g gift cards. This is a			the goal was to sell	7. 8.
5)	-	internet on a phone onth. This is a		ut starting in Nover	mber the price will	9. 10.
6)		ally averaged 108 cm ay. What is the pero	•		• •	
7)		smoothie is 30 ound is% larger.	es while a large fro	uit smoothie is 34.2	ounces. The large	
8)		he average score fo was 44.08. The fall				
9)		of percent.	the new special edi	tion version is goin	g to be \$40.6. This	
10)	•	nef uses 12 ounces of 13.44 ounces instea chocolate.		-		

_		
	Examining Percent Increase and Decrease Name:	
Solv	e each problem.	<u>Answers</u>
1)	A small fruit smoothie is 30 ounces while a large fruit smoothie is 39 ounces. The large	1
	fruit smoothie is% larger.	1
		2.
2)	The price for internet on a phone was \$5 a month, but starting in November the price will	
	be \$5.9 a month. This is a% increase.	3
		4
2)	In the anning the eveness scene for a division worksheet was 02. But heals in the fall the	4
3)	In the spring the average score for a division worksheet was 93. But back in the fall the average score was 70.68. The fall score was% lower than the spring score.	5.
		6
4)	At a restaurant the bill came to \$56. If you leave \$63.84, what percent tip is that?	7.
		7
		8
5)	A pole was supposed to be 17 meters long, but it was accidentally made 19.04 meters long.	
	The pole is percent longer than it needs to be.	9
		10.
6)	A store normally averaged 166 customers a day. But on the weekends they averaged	10.
0)	129.48 customers a day. What is the percent decrease in the number of customers?	
7)	Sam spent 23 minutes on his math homework and 33.12 minutes on his spelling homework. He spent percent more time on his spelling homework.	
	nome work. The spent percent more time on mis spering nome work.	
8)	A large soda is 228 calories and a small soda is 173.28 calories. The small soda has	
	percent fewer calories.	
9)	Vanessa's family decided to get rid of their cable TV. Originally they were paying \$131	
	for the TV, internet and phone, but now they're paying \$75.98. What was the percent the	
	bill decreased by?	
10)	Normally a same costs \$22. But the new special adition version is active to be 647.26 . This	
10)	Normally a game costs \$32. But the new special edition version is going to be \$47.36. This is an increase of percent.	
	-	

	Examining Percent Increase and Decrease Name: A	nswer Key
Solv	e each problem.	Answers
1)	A small fruit smoothie is 30 ounces while a large fruit smoothie is 39 ounces. The large fruit smoothie is% larger.	1. <u>30</u>
•		218
2)	The price for internet on a phone was \$5 a month, but starting in November the price will be \$5.9 a month. This is a% increase.	3. 24
3)	In the spring the average score for a division worksheet was 93. But back in the fall the	4. 14
	average score was 70.68. The fall score was% lower than the spring score.	5. <u>12</u> 6. <u>22</u>
4)	At a restaurant the bill came to \$56. If you leave \$63.84, what percent tip is that?	7. <u>44</u>
- ``		8
5)	A pole was supposed to be 17 meters long, but it was accidentally made 19.04 meters long The pole is percent longer than it needs to be.	9. 42
6)	A store normally averaged 166 customers a day. But on the weekends they averaged 129.48 customers a day. What is the percent decrease in the number of customers?	10. <u>48</u>
7)	Sam spent 23 minutes on his math homework and 33.12 minutes on his spelling homework. He spent percent more time on his spelling homework.	
8)	A large soda is 228 calories and a small soda is 173.28 calories. The small soda has percent fewer calories.	
9)	Vanessa's family decided to get rid of their cable TV. Originally they were paying \$131 for the TV, internet and phone, but now they're paying \$75.98. What was the percent the bill decreased by?	
10)	Normally a game costs \$32. But the new special edition version is going to be \$47.36. This is an increase of percent.	

		Exomining Do	raant Inaraaca a	nd Daaraasa	Nomo	
Solv	e each problen		ercent Increase a	IIU Declease	Name:	Answers
\square	24	18	48	14	22	
	30	42	24	44	12	1
1)		moothie is 30 ounc is% larger.	es while a large fru	iit smoothie is 39 o	ounces. The large	2
2)	-	nternet on a phone th. This is a9		ut starting in Nover	mber the price will	4
3)		ne average score fo was 70.68. The fall				5. 6.
4)	At a restaurant	the bill came to \$5	56. If you leave \$63	3.84, what percent	tip is that?	7. 8.
5)		pposed to be 17 me percent longer	-	•	e 19.04 meters long.	9. 10.
6)		lly averaged 166 cu ers a day. What is	•			
7)	-	minutes on his math spent perce				
8)	A large soda is percent fewer	s 228 calories and a calories.	. small soda is 173.	28 calories. The sn	nall soda has	
9)		ily decided to get ri ernet and phone, bu by?			1 0 0	
10)		me costs \$32. But t of percent.	he new special edi	tion version is goin	ng to be \$47.36. This	

Solv	Examining Percent Increase and Decrease Name:		Answers
1)	The price for internet on a phone was \$5 a month, but starting in November the price will be \$6 a month. This is a% increase.	1.	Answers
2)	Edward used to have \$422 in the bank but after a year the amount increased to \$624.56. This was an increase of%.	2. 3.	
3)	A pole was supposed to be 12 meters long, but it was accidentally made 14.64 meters long. The pole is percent longer than it needs to be.	4. 5.	
4)	In February Paul spent 35 hours watching Netflix. In March he only spent 20.3 hours watching. What was the percent decrease in the amount of time he spent watching?	6. 7.	
5)	Amy's family decided to get rid of their cable TV. Originally they were paying \$72 for the TV, internet and phone, but now they're paying \$57.6. What was the percent the bill decreased by?	8. 9.	
6)	A game normally cost \$60, but Bianca used a coupon and got the game for \$34.8. The coupon was for percent off.	10.	
7)	In February Robin got a puppy that weighed 15 kilograms. By October the puppy weighed 16.8 kilograms. What was the percent the puppy's weight increased?		
8)	Normally a chef uses 13 ounces of chocolate to make chocolate chip cookies. But he started using 16.38 ounces instead. He should advertise the cookies as having percent more chocolate.		
9)	Last year a fishing license cost \$57. This year the license will cost \$36.48. This is a percent decrease.		
10)	A store sold 14 dollars worth of gift cards in October. The next month the goal was to sell \$17.08 worth of gift cards. This is an increase of percent.		

	each problem.		
1)			Answers
	The price for internet on a phone was \$5 a month, but starting in November the price will be \$6 a month. This is a% increase.	1	20
2)	Edward used to have \$422 in the bank but after a year the amount increased to \$624.56.	2	48
	This was an increase of%.	3	22 42
	A pole was supposed to be 12 meters long, but it was accidentally made 14.64 meters long. The pole is percent longer than it needs to be.	4. – 5. –	20
	In February Paul spent 35 hours watching Netflix. In March he only spent 20.3 hours	6	42 12
	watching. What was the percent decrease in the amount of time he spent watching?	7. – 8. –	26
,	Amy's family decided to get rid of their cable TV. Originally they were paying \$72 for the TV, internet and phone, but now they're paying \$57.6. What was the percent the bill decreased by?	9	36
	A game normally cost \$60, but Bianca used a coupon and got the game for \$34.8. The coupon was for percent off.	^{10.} _	22
	In February Robin got a puppy that weighed 15 kilograms. By October the puppy weighed 16.8 kilograms. What was the percent the puppy's weight increased?		
:	Normally a chef uses 13 ounces of chocolate to make chocolate chip cookies. But he started using 16.38 ounces instead. He should advertise the cookies as having percent more chocolate.		
	Last year a fishing license cost \$57. This year the license will cost \$36.48. This is a percent decrease.		
	A store sold 14 dollars worth of gift cards in October. The next month the goal was to sell \$17.08 worth of gift cards. This is an increase of percent.		

		Examining Pe	ercent Increase a	nd Decrease	Name:	
Solv	e each probler				T (unite)	Answers
\bigcap	26	12	42	20	36	
	22	22	42	20	48	1
1)	-	internet on a phone . This is a%		ut starting in Nover	nber the price will	2
2)		to have \$422 in the acrease of%.	bank but after a ye	ar the amount incre	eased to \$624.56.	4.
3)	-	pposed to be 12 me percent longer	-	•	e 14.64 meters long.	5. 6.
4)	-	-	-	n March he only spo ount of time he sper		7.
5)		nd phone, but now		Driginally they were .6. What was the pe	e paying \$72 for the ercent the bill	9. 10.
6)	0	ally cost \$60, but B or percent off.	ianca used a coupo	on and got the game	for \$34.8. The	
7)	-	obin got a puppy th s. What was the per	-		the puppy weighed	
8)	•	16.38 ounces instea		te chocolate chip co tise the cookies as l		
9)	Last year a fis percent decrea	-	57. This year the lic	cense will cost \$36.	48. This is a	
10)		4 dollars worth of g of gift cards. This i		er. The next month t percent.	the goal was to sell	
		Modif	• 1			<u>50 50 40 30 20 10 0</u>

Admining I creent mercuse and Decreuse		Increase and Decrease	Percent	Examining
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	Examining Percent Increase and Decrease Name:		
Solv	e each problem.		Answers
1)	A pole was supposed to be 20 meters long, but it was accidentally made 26.8 meters long. The pole is percent longer than it needs to be.	1	
2)	A store sold 13 dollars worth of gift cards in October. The next month the goal was to sell \$16.38 worth of gift cards. This is an increase of percent.	2 3	
3)	Jerry used to have \$430 in the bank but after a year the amount increased to \$498.8. This was an increase of%.	4. 5.	
4)	A game normally cost \$51, but Carol used a coupon and got the game for \$33.66. The coupon was for percent off.	6 7	
5)	The price for internet on a phone was \$10 a month, but starting in November the price will be \$14.6 a month. This is a% increase.	8 9	
6)	In the spring the average score for a division worksheet was 85. But back in the fall the average score was 74.8. The fall score was% lower than the spring score.	10.	
7)	At a restaurant the bill came to \$78. If you leave \$113.88, what percent tip is that?		
8)	Emily's family decided to get rid of their cable TV. Originally they were paying \$87 for the TV, internet and phone, but now they're paying \$67.86. What was the percent the bill decreased by?		
9)	A library normally collected \$37 in fees a month. But in March they collected \$42.18. What is the percent increase in the number of fees collected in March?		
10)	Last month Ned spent 59 dollars on games. This month he only spent \$38.94. He spent percent less this month.		

		17
		nswer Key
S0IV	e each problem.	Answers
1)	A pole was supposed to be 20 meters long, but it was accidentally made 26.8 meters long. The pole is percent longer than it needs to be.	134
		2. 26
2)	A store sold 13 dollars worth of gift cards in October. The next month the goal was to sell \$16.38 worth of gift cards. This is an increase of percent.	3. 16
- `		434
3)	Jerry used to have \$430 in the bank but after a year the amount increased to \$498.8. This was an increase of%.	5. 46
		6. <u>12</u>
4)	A game normally cost \$51, but Carol used a coupon and got the game for \$33.66. The coupon was for percent off.	7. 46
		8
5)	The price for internet on a phone was \$10 a month, but starting in November the price will be \$14.6 a month. This is a% increase.	9
		1034
6)	In the spring the average score for a division worksheet was 85. But back in the fall the average score was 74.8. The fall score was% lower than the spring score.	
7)	At a restaurant the bill came to \$78. If you leave \$113.88, what percent tip is that?	
8)	Emily's family decided to get rid of their cable TV. Originally they were paying \$87 for the TV, internet and phone, but now they're paying \$67.86. What was the percent the bill decreased by?	
9)	A library normally collected \$37 in fees a month. But in March they collected \$42.18. What is the percent increase in the number of fees collected in March?	
10)	Last month Ned spent 59 dollars on games. This month he only spent \$38.94. He spent percent less this month.	

		Examining Pe	ercent Increase a	nd Decrease	Name:	
Solv	e each probler		reent mereuse u		i tume.	Answers
	16 26	14 34	22 34	34 46	12 46	1
1)	-	pposed to be 20 me percent longer	-	-	le 26.8 meters long.	2
2)		3 dollars worth of g of gift cards. This is			the goal was to sell	4 5.
3)	•	have \$430 in the barse of%.	nk but after a year	the amount increas	ed to \$498.8. This	6.
4)	-	ally cost \$51, but C or percent off.	arol used a coupon	and got the game	for \$33.66. The	7. 8.
5)	-	internet on a phone onth. This is a		but starting in Nov	ember the price will	9 10
6)	1 0	the average score fo was 74.8. The fall s				
7)	At a restauran	t the bill came to \$7	78. If you leave \$1	13.88, what percen	t tip is that?	
8)	• •	y decided to get rid net and phone, but n			1,2,00	
9)	•	nally collected \$37 ercent increase in th		•		
10)		ed spent 59 dollars t less this month.	on games. This mo	onth he only spent S	\$38.94. He spent	

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Examining Percent Increase and Decrease

Name:

Solv	e each problem.		Answers
1)	Faye's family decided to get rid of their cable TV. Originally they were paying \$148 for the TV, internet and phone, but now they're paying \$88.8. What was the percent the bill decreased by?	1	
		2.	
2)	A library normally collected \$34 in fees a month. But in March they collected \$38.08. What is the percent increase in the number of fees collected in March?	3.	
3)	Last years phone model had a battery that lasted 15 hours. This year the battery only last	4. <u>-</u> 5.	
	for 8.4 hours. What was the percent the battery life decreased?		
		6.	
4)	A store normally averaged 127 customers a day. But on the weekends they averaged 73.66 customers a day. What is the percent decrease in the number of customers?	7.	
		0	
5)	A store sold 15 dollars worth of gift cards in October. The next month the goal was to sell	8. <u>-</u>	
	\$21.6 worth of gift cards. This is an increase of percent.	9.	
		10.	
6)	A game normally cost \$57, but Nancy used a coupon and got the game for \$36.48. The coupon was for percent off.		
7)	Henry spent 23 minutes on his math homework and 32.2 minutes on his spelling homework. He spent percent more time on his spelling homework.		
8)	The price for internet on a phone was \$9 a month, but starting in November the price will be \$13.5 a month. This is a% increase.		
9)	Normally a game costs \$37. But the new special edition version is going to be \$53.28. This is an increase of percent.		
	·		
10)	Olivia bought a computer for \$149.64. Dave bought one for \$258. Olivia's computer was percent cheaper.		
		1	

	Examining Percent Increase and Decrease Name: An	swer 1	Kev
Solv	e each problem.		nswers
1)	Faye's family decided to get rid of their cable TV. Originally they were paying \$148 for the TV, internet and phone, but now they're paying \$88.8. What was the percent the bill decreased by?	1	40
2)	A library normally collected \$34 in fees a month. But in March they collected \$38.08. What is the percent increase in the number of fees collected in March?	2 3	12 44
3)	Last years phone model had a battery that lasted 15 hours. This year the battery only last for 8.4 hours. What was the percent the battery life decreased?	4 5	42 44
4)	A store normally averaged 127 customers a day. But on the weekends they averaged 73.66 customers a day. What is the percent decrease in the number of customers?	6 7	36 40
5)	A store sold 15 dollars worth of gift cards in October. The next month the goal was to sell \$21.6 worth of gift cards. This is an increase of percent.	8 9	50 44
6)	A game normally cost \$57, but Nancy used a coupon and got the game for \$36.48. The coupon was for percent off.	10	42
7)	Henry spent 23 minutes on his math homework and 32.2 minutes on his spelling homework. He spent percent more time on his spelling homework.		
8)	The price for internet on a phone was \$9 a month, but starting in November the price will be \$13.5 a month. This is a% increase.		
9)	Normally a game costs \$37. But the new special edition version is going to be \$53.28. This is an increase of percent.		
10)	Olivia bought a computer for \$149.64. Dave bought one for \$258. Olivia's computer was percent cheaper.		

		Examining Pe	rcent Increase a	and Decrease	Name:	
Solv	e each probler					Answers
\bigcap	44	36	40	12	50	
	40	42	44	44	42	1
1)	• •	decided to get rid o et and phone, but no		••••	1.0	2 3
2)	•	nally collected \$34 ercent increase in the		•		4
3)	• •	one model had a bat What was the perce	•	•	e battery only last	5. 6.
4)		ally averaged 127 cu ay. What is the perc	-		they averaged 73.66 ners?	7.
5)	A store sold 1 \$21.6 worth o	the goal was to sell	9 10			
6)	-	ally cost \$57, but N or percent off.	ancy used a coupo	n and got the game	for \$36.48. The	
7)	Henry spent 2 homework. He					
8)	-	internet on a phone onth. This is a		ut starting in Nove	mber the price will	
9)		time costs \$37. But t of percent.	he new special edi	tion version is goir	ng to be \$53.28. This	
10)	-	a computer for \$14 t cheaper.	9.64. Dave bought	t one for \$258. Oliv	via's computer was	
		_				