	Understanding Unit RateName:	
Solv	e each problem.	Answers
1)	While exercising Adam walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	1
2)	A chef used $\frac{1}{2}$ of a bag of potatoes to make $\frac{1}{3}$ of a gallon of stew. If he wanted to make a full gallon of stew how many bags of potatoes would he need?	2 3
3)	Rachel spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	4 5
4)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	6 7
5)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	8 9
6)	A carpenter used $\frac{1}{2}$ of a box of nails while working on a birdhouse and was able to finish $\frac{1}{3}$ of it. At this rate, how many boxes will he need to finish the entire birdhouse?	10
7)	Lana was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?	
8)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	
9)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?	
0)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	

	Understanding Unit Rate Name:	Answer Key
Solv	e each problem.	<u>Answers</u>
1)	While exercising Adam walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	11 ¹ / ₂ miles
		2. $1^{1/2}$ bags
2)	A chef used $\frac{1}{2}$ of a bag of potatoes to make $\frac{1}{3}$ of a gallon of stew. If he wanted to make a full gallon of stew how many bags of potatoes would he need?	3. $1^{1/2}$ hours
		4. 3 containers
3)	Rachel spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	5. $1^{1/2}$ hours
		6. $1^{1/2}$ boxes
4)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	7. 3 containers
5)		8. <u>3 bottles</u>
5)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	9. $1^{1/2}$ bags
		10. 3 baskets
6)	A carpenter used $\frac{1}{2}$ of a box of nails while working on a birdhouse and was able to finish $\frac{1}{3}$ of it. At this rate, how many boxes will he need to finish the entire birdhouse?	
7)	Lana was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?	
8)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	
9)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?	
10)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	

	Lindorstonding Unit Data	
<u> </u>	e each problem. Understanding Unit Rate Name:	A n a m a n a
1)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	<u>Answers</u> 1 2.
2)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?	3. 4.
3)	Maria spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	5
4)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	6 7 8.
5)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	9
6)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	10
7)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	
8)	Debby was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?	
9)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	
10)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	

	Understanding Unit Rate Name:	Answer Key
Solv	e each problem.	Answers
1)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	11 ¹ / ₂ hours
	1	$_{2.}$ 1 ¹ / ₂ bags
2)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the	3. $1^{1/2}$ hours
	entire jug?	4. $1^{1/2}$ minutes
3)	Maria spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	5. 3 bags
		6. 3 containers
4)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	7. 3 bags
		8. 3 containers
5)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	9. 3 baskets
		10. 3 bottles
6)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	
7)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	
8)	Debby was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?	
9)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	
10)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	

	Understanding Unit Rate Name	
<u> </u>	e each problem.	Answers
1)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power needed for a small lightbulb. How many potatoes would you need to power the lightbulb?	1
2)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	3.
3)	A small can of paint was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a paint sprayer. How many cans of paint would it take to completely fill the sprayer?	4 5
4)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	6.
5)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	8. 9.
6)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	10
7)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?	
8)	It takes a baker $\frac{1}{2}$ of an hour to make enough cookies to fill $\frac{1}{3}$ of large box. How long would it take him to fill the whole box?	
9)	Carol was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?	
10)	Nancy spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	

	Understanding Unit Rate Name:	Answer Key
Solv	e each problem.	Answers
1)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power needed for a small lightbulb. How many potatoes would you need to power the	1. 3 potatoes
	lightbulb?	2. 3 bags
2)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	3. 3 cans
		4. $1\frac{1}{2}$ hours
3)	A small can of paint was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a paint sprayer. How many cans of paint would it take to completely fill the sprayer?	5. 3 baskets
		6. 3 bottles
4)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	$\frac{1}{2} \frac{1}{2} \frac{1}$
		$_{\rm s}$ 1 ¹ / ₂ hours
5)		8
5)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	9. 3 containers
	was γ_3 run. How many baskets of remons would you need to run up the entire cup?	10. $1^{1/2}$ hours
6)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	10. <u>172 nours</u>
7)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?	
8)	It takes a baker $\frac{1}{2}$ of an hour to make enough cookies to fill $\frac{1}{3}$ of large box. How long would it take him to fill the whole box?	
9)	Carol was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?	
10)	Nancy spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	

	Understanding Unit Rate Name:	
Solv	e each problem.	Answers
1)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	1 2.
2)	While exercising Victor walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	3.
3)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	4 5 6.
4)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	7.
5)	A pencil making machine took $\frac{1}{2}$ of a second to make enough pencils to fill $\frac{1}{3}$ of a box. At this rate, how long would it take the machine to fill the entire box?	8 9
6)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	10
7)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
8)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	
9)	A chef used $\frac{1}{2}$ of a bag of potatoes to make $\frac{1}{3}$ of a gallon of stew. If he wanted to make a full gallon of stew how many bags of potatoes would he need?	
10)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	

		T .
Solv	e each problem. Understanding Unit Rate Name:	Answer Key Answers
1)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	1. 3 bottles 2. $1^{1}/_{2} \text{ miles}$
2)	While exercising Victor walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	3. 3 bags
3)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	5. 1 ¹ / ₂ seconds 6. 3 containers
4)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	7. $\frac{1^{1/2} \text{ hours}}{3 \text{ bags}}$
5)	A pencil making machine took $\frac{1}{2}$ of a second to make enough pencils to fill $\frac{1}{3}$ of a box. At this rate, how long would it take the machine to fill the entire box?	9. $\frac{1^{1}/_{2} \text{ bags}}{1^{1}/_{2} \text{ minutes}}$
6)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	
7)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
8)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	
9)	A chef used $\frac{1}{2}$ of a bag of potatoes to make $\frac{1}{3}$ of a gallon of stew. If he wanted to make a full gallon of stew how many bags of potatoes would he need?	
10)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	

	Understanding Unit Rate Name:	
Solv	e each problem.	Answers
1)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	1. 2.
2)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	3. 4.
3)	Nancy spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	5 6.
4)	Paige was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?	7. 8.
5)	A carpenter used $\frac{1}{2}$ of a box of nails while working on a birdhouse and was able to finish $\frac{1}{3}$ of it. At this rate, how many boxes will he need to finish the entire birdhouse?	9
6)	A restaurant took $\frac{1}{2}$ of an hour to use $\frac{1}{3}$ of a package of napkins. At this rate, how many hours would it take to use the entire package?	
7)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
8)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?	
9)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	
10)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	

	Understanding Unit Rate Name:	Answer Key
Solv	e each problem.	Answers
1)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to	1. 3 bags
	feed all of the students?	2. 3 baskets
2)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	3. $1^{1/2}$ hours
		4. 3 containers
3)	Nancy spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	5. $1^{1/2}$ boxes
		$_{6.}$ 1 ¹ / ₂ hours
4)	Paige was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take	7. $1^{1/2}$ hours
	to fill the fishbowl?	$_{8.}$ 1 ¹ / ₂ bags
5)	A carpenter used $\frac{1}{2}$ of a box of nails while working on a birdhouse and was able to finish $\frac{1}{3}$ of it. At this rate, how many boxes will he need to finish the entire	9. $1\frac{1}{2}$ minutes
	birdhouse?	10. 3 bags
6)	A restaurant took $\frac{1}{2}$ of an hour to use $\frac{1}{3}$ of a package of napkins. At this rate, how many hours would it take to use the entire package?	
7)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
8)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?	
9)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	
10)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	

	Understanding Unit Rate Name	
	e each problem.	Answers
1)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a	1
	front lawn with seed. How many bags would it take to completely cover a lawn?	1
		2
2)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount	
	of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the	3
	entire jug?	1
3)		т. <u></u>
5)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that	5
	was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	
		6
4)	A pencil making machine took $\frac{1}{2}$ of a second to make enough pencils to fill $\frac{1}{3}$ of a	7
	box. At this rate, how long would it take the machine to fill the entire box?	/
		8
5)	A carpenter used $\frac{1}{2}$ of a box of nails while working on a birdhouse and was able to	
	finish $\frac{1}{3}$ of it. At this rate, how many boxes will he need to finish the entire	9
	birdhouse?	10.
6)	Amy was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon	
	of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take	
	to fill the fishbowl?	
7)	1 1	
7)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many	
	hours would it take to fill the pool?	
8)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power	
	needed for a small lightbulb. How many potatoes would you need to power the lightbulb?	
	Ingitouro :	
9)	It takes a baker $\frac{1}{2}$ of an hour to make enough cookies to fill $\frac{1}{3}$ of large box. How	
	long would it take him to fill the whole box?	
10)	$\mathbf{L}_{\mathbf{r}} = \frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \right] \right] + \frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \right] \right] + \frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \right] \right] + \frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \right] \right] + \frac{1}{2} \left[\frac{1}{2}$	
,	Lana spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	
	Tong the same to pay on her phone to use the onthe buttery.	

	Understanding Unit Rate Name:	Answer Key
Solv	e each problem.	Answers
1)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	1. 3 bags
		2. $1^{1}/_{2}$ bags
2)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the	3. 3 baskets
	entire jug?	$_{4.}$ <u>1¹/₂ seconds</u>
3)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	5. $1^{1/2}$ boxes
		6. 3 containers
4)	A pencil making machine took $\frac{1}{2}$ of a second to make enough pencils to fill $\frac{1}{3}$ of a box. At this rate, how long would it take the machine to fill the entire box?	7. $1^{1/2}$ hours
		8. 3 potatoes
5)	A carpenter used $\frac{1}{2}$ of a box of nails while working on a birdhouse and was able to	9. $1\frac{1}{2}$ hours
	finish $\frac{1}{3}$ of it. At this rate, how many boxes will he need to finish the entire birdhouse?	10. $1^{1/2}$ hours
6)	Amy was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?	
7)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
8)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power needed for a small lightbulb. How many potatoes would you need to power the lightbulb?	
9)	It takes a baker $\frac{1}{2}$ of an hour to make enough cookies to fill $\frac{1}{3}$ of large box. How long would it take him to fill the whole box?	
10)	Lana spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	

	Understanding Unit Rate Name:	
Solv	e each problem.	Answers
1)	A pencil making machine took $\frac{1}{2}$ of a second to make enough pencils to fill $\frac{1}{3}$ of a box. At this rate, how long would it take the machine to fill the entire box?	1
2)	A chef used $\frac{1}{2}$ of a bag of potatoes to make $\frac{1}{3}$ of a gallon of stew. If he wanted to make a full gallon of stew how many bags of potatoes would he need?	2 3
3)	A small can of paint was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a paint sprayer. How many cans of paint would it take to completely fill the sprayer?	4 5
4)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	6 7
5)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	8 9
6)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	10
7)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
8)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power needed for a small lightbulb. How many potatoes would you need to power the lightbulb?	
9)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	
10)	Haley spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	
	Math www.CommonCoreSheets.com 7	70 60 50 40 30 20 10 0

	Understanding Unit Rate Name:	Answer Key
	e each problem.	Answers
1)	A pencil making machine took $\frac{1}{2}$ of a second to make enough pencils to fill $\frac{1}{3}$ of a box. At this rate, how long would it take the machine to fill the entire box?	1. $1^{1/2}$ seconds
		2. $1^{1/2}$ bags
2)	A chef used $\frac{1}{2}$ of a bag of potatoes to make $\frac{1}{3}$ of a gallon of stew. If he wanted to make a full gallon of stew how many bags of potatoes would he need?	3. 3 cans
		4. $1^{1/2}$ minutes
3)	A small can of paint was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a paint sprayer. How many cans of paint would it take to completely fill the sprayer?	5. $1^{1/2}$ hours
		6. 3 baskets
4)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	7. $1^{1/2}$ hours
		8. 3 potatoes
5)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	9. 3 bags
		10. $1^{1/2}$ hours
6)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that	
	was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	
7)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
8)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power needed for a small lightbulb. How many potatoes would you need to power the lightbulb?	
9)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough	
	brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	
10)	Haley spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	
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	Understanding Unit Rate Name:	▲
1)	e each problem. It takes a baker $\frac{1}{2}$ of an hour to make enough cookies to fill $\frac{1}{3}$ of large box. How long would it take him to fill the whole box?	<u>Answers</u> 1
2)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	3.
3)	Faye spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	4.
4)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power needed for a small lightbulb. How many potatoes would you need to power the lightbulb?	6 7 8.
5)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	9
6)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	
7)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	
8)	While exercising Billy walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	
9)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	
10)	A restaurant took $\frac{1}{2}$ of an hour to use $\frac{1}{3}$ of a package of napkins. At this rate, how many hours would it take to use the entire package?	

	Understanding Unit Rate Name:	Answer Key
Solv	e each problem.	Answers
1)	It takes a baker $\frac{1}{2}$ of an hour to make enough cookies to fill $\frac{1}{3}$ of large box. How long would it take him to fill the whole box?	11 ¹ / ₂ hours
		2. $1^{1/2}$ hours
2)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	3. $1^{1/2}$ hours
•		4. 3 potatoes
3)	Faye spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	5. 3 bags
		6. 3 containers
4)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power needed for a small lightbulb. How many potatoes would you need to power the	7. $1^{1/2}$ minutes
	lightbulb?	8. $1^{1/2}$ miles
5)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough	9. 3 bags
	brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	10. <u>$1^{1}/_{2}$ hours</u>
6)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	
7)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	
8)	While exercising Billy walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	
9)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	
10)	A restaurant took $\frac{1}{2}$ of an hour to use $\frac{1}{3}$ of a package of napkins. At this rate, how many hours would it take to use the entire package?	

	Understanding Unit Rate Name:			
Solv	Solve each problem. Answers			
1)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?	1		
2)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	2 3		
3)	A restaurant took $\frac{1}{2}$ of an hour to use $\frac{1}{3}$ of a package of napkins. At this rate, how many hours would it take to use the entire package?	4. 5.		
4)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	6 7		
5)	While exercising George walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	8 9		
6)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	10		
7)	A chef used $\frac{1}{2}$ of a bag of potatoes to make $\frac{1}{3}$ of a gallon of stew. If he wanted to make a full gallon of stew how many bags of potatoes would he need?			
8)	Emily was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?			
9)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?			
10)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?			

	Understanding Unit Rate Name:	Answer Key
Solv	e each problem.	Answers
1)	A dejuicer was able to squeeze a pint of juice from $\frac{1}{2}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?	1. $\frac{1^{1}}{2}$ bags 2. $\frac{1^{1}}{2}$ hours
2)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	3. $1^{1/2}$ hours
3)	A restaurant took $\frac{1}{2}$ of an hour to use $\frac{1}{3}$ of a package of napkins. At this rate, how many hours would it take to use the entire package?	4. 3 containers 5. $1^{1/2}$ miles
4)	A container of gasoline that held $\frac{1}{2}$ of a liter could fill up $\frac{1}{3}$ of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?	6. 3 bottles 7. $1^{1/2}$ bags
5)	While exercising George walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	8. 3 containers 9. $1^{1/2}$ hours
6)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	10. 3 baskets
7)	A chef used $\frac{1}{2}$ of a bag of potatoes to make $\frac{1}{3}$ of a gallon of stew. If he wanted to make a full gallon of stew how many bags of potatoes would he need?	
8)	Emily was using a container to fill up a fishbowl. The container held $\frac{1}{2}$ of a gallon of water and filled $\frac{1}{3}$ of the fishbowl. At this rate, how many containers will it take to fill the fishbowl?	
9)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
10)	A basket of lemons weighed $\frac{1}{2}$ of a pound and could make a cup of lemonaide that was $\frac{1}{3}$ full. How many baskets of lemons would you need to fill up the entire cup?	

	Understanding Unit Rate Nam	e:
Solv	e each problem.	Answers
1)	A small can of paint was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a paint sprayer How many cans of paint would it take to completely fill the sprayer?	1
2)	While exercising Jerry walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	2 3
3)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	4. 5.
4)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	6.
5)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	8.
6)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	10
7)	A restaurant took $\frac{1}{2}$ of an hour to use $\frac{1}{3}$ of a package of napkins. At this rate, how many hours would it take to use the entire package?	V
8)	Haley spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	
9)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
10)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power needed for a small lightbulb. How many potatoes would you need to power the lightbulb?	

	e each problem. Understanding Unit Rate Name:	Answer Key Answers
1)	A small can of paint was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a paint sprayer. How many cans of paint would it take to completely fill the sprayer?	1. 3 cans
2)	While exercising Jerry walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?	2. $\frac{1^{1/2}}{2}$ miles 3. 3 bags
3)	A bag of grass seeds weighed $\frac{1}{2}$ of a kilogram. That was enough to cover $\frac{1}{3}$ of a front lawn with seed. How many bags would it take to completely cover a lawn?	4. 3 bottles 5. $1^{1/2}$ minutes
4)	A discount bottle of perfume was $\frac{1}{2}$ of a liter. That was enough to fill $\frac{1}{3}$ of a jug. How many bottles of perfume would you need to fill the entire jug?	6. 3 bags 7. $1^{1/2}$ hours
5)	A snail going full speed was taking $\frac{1}{2}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?	8. $\frac{1^{1}/_{2} \text{ hours}}{1^{1}/_{2} \text{ hours}}$ 9. $\frac{1^{1}/_{2} \text{ hours}}{1^{1}/_{2} \text{ hours}}$
6)	A bag of chocolate mix that weighed $\frac{1}{2}$ of a kilogram could make enough brownies to feed $\frac{1}{3}$ of the students at school. How many bags would be needed to feed all of the students?	10. <u>3 potatoes</u>
7)	A restaurant took $\frac{1}{2}$ of an hour to use $\frac{1}{3}$ of a package of napkins. At this rate, how many hours would it take to use the entire package?	
8)	Haley spent $\frac{1}{2}$ of an hour playing on her phone. That used up $\frac{1}{3}$ of her battery. How long would she have to play on her phone to use the entire battery?	
9)	A water hose had filled up $\frac{1}{3}$ of a pool after $\frac{1}{2}$ of an hour. At this rate, how many hours would it take to fill the pool?	
10)	An old potato outputs $\frac{1}{2}$ of a volt of electricity, which is $\frac{1}{3}$ the amount of power needed for a small lightbulb. How many potatoes would you need to power the lightbulb?	

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