Maths word problems - Application of number

At Guide Dogs we breed and train dogs that help people with sight loss get out and about and live independently. Today we're focusing on a recent litter of 12 puppies, born to guide dog mum Abby.

Arrow was born at 4am followed by Baxter and Chaz.							
Dell was born 105 minutes after Arrow, what time was Dell born?							
Milly was born 128 minutes after Arrow, what time was Milly born?							
The last puppy to be pup being born to the			am, calcula	te the numbe	er of minute	s it took from	n the first
pup being both to the tast pup:							
All the puppies were below.	e weighed w	hen they we	re born, use	e the followir	ng table to c	ınswer the q	uestions
Puppy/weight in	Birth	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Baxter	370g	510g	860g	1420g	2000g	2690g	3540g
Chaz	430g	610g	930g	1580g	2090g	2750g	3720g
Elmo	400g	660g	990g	1480g	2210g	2820g	3740g
Goldie	400g	540g	1010g	1450g	2150g	2710g	3780g
Inca	360g	520g	880g	1430g	2080g	2710g	3550g
Jessie	450g	630g	1080g	1400g	2060g	2800g	3900g
Kira	480g	620g	1000g	1480g	2100g	3010g	3800g
Lola	390g	540g	910g	1450g	2090g	2840g	3720g
What is the weight o	difference b	etween Lolo	ı and Inca a	t birth and 2	2 weeks?		
What percentage d							
What percentage difference is there between Lola and Inca's weight at 2 weeks?							
What does the weight difference in grams and the percentage difference tell us?							
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Use the weights table to work out the percentage increase in weight of the following:

Puppy	Percentage increase from birth to week 1	Percentage increase from week 5 to 6	Percentage increase birth to week 6
Chaz			
Elmo			
Kira			
Goldie			

Chaz					
Elmo					
Kira					
Goldie					
		·	centages for each inc t does the information	dividual puppy's growth over n tell us?	
were cl At 25 day of dry foc	osed and the s old, Abby's pup od per meal thre	eir movement was linds all had their eyes oper	nited. and they were on sol half weeks old they w	r mums' milk, their eye lid food. Each puppy had 15g vere each given 25g per med e times a day.	I
2kg bag, (calculatin	a 4kg bag and a		nation in the text to co	to feed Abby's puppies, omplete the table below by e 12 puppies at the different	Ī
2kg bag, (calculatin	a 4kg bag and a ig how many day their growth.	n 8kg bag. Use the inforn	nation in the text to co	omplete the table below by e 12 puppies at the different	
2kg bag, ocalculating stages of	a 4kg bag and a ag how many day their growth. ge/bag	n 8kg bag. Use the informs to one decimal place, e	nation in the text to co ach bag would last th	omplete the table below by e 12 puppies at the different	
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2kg bag, calculating stages of Puppy ac	a 4kg bag and a ag how many day their growth. ge/bag old nalf weeks	n 8kg bag. Use the informs to one decimal place, e	nation in the text to co ach bag would last th	omplete the table below by e 12 puppies at the different	
2kg bag, ocalculating stages of Puppy age 25 days of 4 and a hand	a 4kg bag and a ag how many day their growth. ge/bag old nalf weeks	n 8kg bag. Use the informs to one decimal place, e	nation in the text to co ach bag would last th	omplete the table below by e 12 puppies at the different	



Complete the following table to work out how much you would pay per kg of food for each bag size.

Bag size	Cost of the bag	Cost per kg
2kg	£12.49	
4kg	£19.99	
8kg	£32.99	



You need 30kg of food to support the litter of puppies for the 1st 6 weeks of their life. Use the cost of the bags in the table, to work out the differences in cost if you purchased 8kg bags or 4kg bags? Remember you'll need to purchase enough bags of food to last the full 6 weeks.

Show your workings out:
How much food from each bag would you have left over?
At Guide Dogs we have a responsibility to spend the money we are given from donations wisely.
Which option gives the best value for money?
Abby's pups have all left mum and are now with their volunteer puppy raisers, learning about the world around them.





guidedogs.org.uk/learning