PUPPY NEONATAL GROWTH CURVES A practical tool for breeders





These Puppy Neonatal Growth Curves are not intended to be a diagnostic tool or to predict the growth of any particular pet. Instead, this is a monitoring tool intended to assess the growth pattern of a given pet in comparison to the standard at the same size & age category.

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The neonatal growth charts presented in this booklet are the result of several years of research collaboration work with high-level teams, expert in neonatalogy (NeoCare, ENVT, Toulouse, France) and data science (Seenovate, Lyon, France).

The huge work of data collection on the field has been driven by the NeoCare team and can be summarized in a few numbers:

- More than 430,000 body weights measurements
- over the period between birth and 62 days of age
- from more than **19,000 puppies**
- representing **119 breeds**
- born in 400 French breeding facilities
- representing a unique retrospective longitudinal follow-up

Then, the data were organized and processed by statisticians to draw the variability of the evolution of body weight from birth up to 2 months of age. Only data coming from puppies alive and assumed in good health during this period were used.

According to the number and repartition of data available for each breed, the growth charts have been built by using breed data only or by grouping data from breeds with similar growth features when relevant.

This booklet presents the most appropriate growth template for any puppy's breed at the publication date of this document. In the future, the collection of more body weights measurements could allow us to improve these growth charts and make them more and more accurate.

These growth charts are suitable for both male and female puppies. Indeed, our analysis have shown that the body weight evolution is similar between both sex during the neonatal period.

If you're looking for more details, please read the science behind these growth charts:

Kocevar G, Rioland M, Laxalde J, Mugnier A, Adib-Lesaux A, Gaillard V, Bodin J. Growth charts for small sample sizes using unsupervised clustering: Application to canine early growth. Vet Res Commun.2023. Jun;47(2):693-706.doi: 10.1007/s11259-022-10029-2.



This booklet presents the most accurate neonatal growth charts, available at the date of publication of this booklet, from birth up to 2months of age for more than 115 puppy breeds.

A growth chart allows you to track how a puppies' weight evolves from birth until 2 months old. For practicality reasons, the growth chart **is displayed into 2 graphs**, **firstly from birth up to 20 days of age, then from 21 to 62 days of age.**

All the growth charts can be used for both male and female puppy as their growth pattern during the neonatal period is quite similar.

On a graph, you can see **5 reference lines** which correspond to **the 9, 25, 50, 75 and 91 centiles** from bottom to top respectively. The bottom reference line is the 9th centile curve. It indicates that 9% of puppies (of a given population) have a weight below this curve. The upper reference line is the 91th centile curve. It indicates that 91% of puppies (of a given population) have a weight below this curve.

One puppy's weight can be anywhere on the graph, and even sometimes outside the weight curves represented. Nevertheless, it should smoothly increase across time. To have the best visualization of your puppy 's weight evolution we advise you to monitor it on a regular basis. Weight loss or the absence of weight gain for 2 consecutive days should alert you and encourage you to seek advice from your veterinarian.

Here are few tips using the neonatal growth charts:

1. Select the corresponding growth charts for your puppy breed. If the breed is not available, please use the generic size for this breed, based on the dog weight at adulthood (pages xx to xx).

2. Print one page for each puppy of the litter and fill in the identity information.

3. Weigh the puppy and plot the body weight on the growth charts:

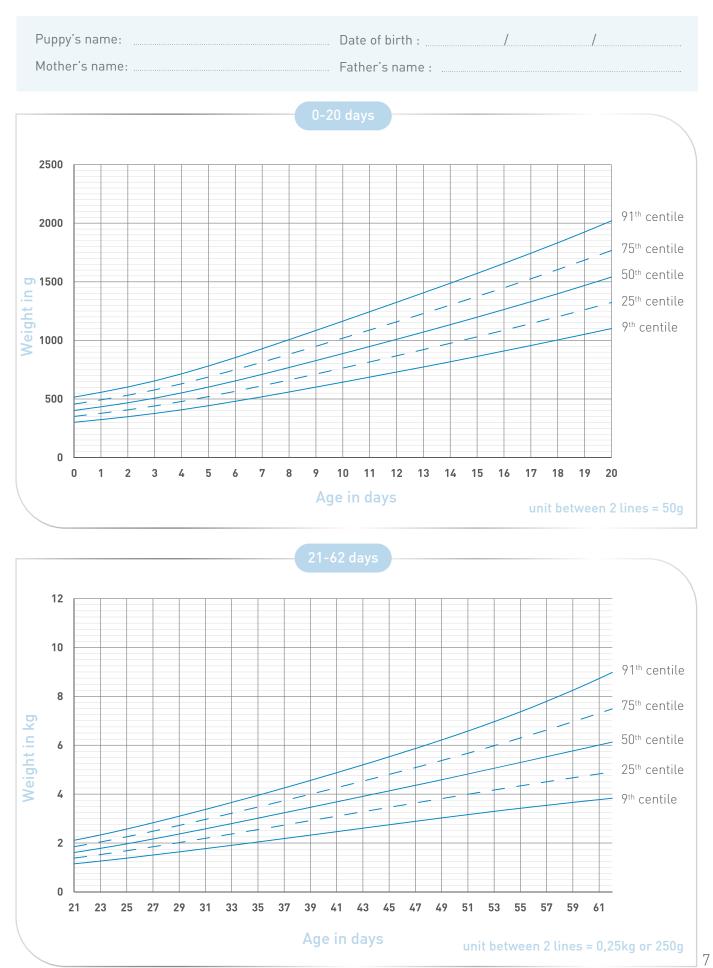
4. It is important to use a scale that is accurate to at least 5 g, especially for small breed puppies. We recommend that you weigh the puppies at regular intervals at the same time each day.

5. We advise to weigh the puppy at birth then each day at least up to day 20 (graph on top). Then, continue to weight the puppy every other day as much as possible up to the end of the follow-up period (graph on the bottom).



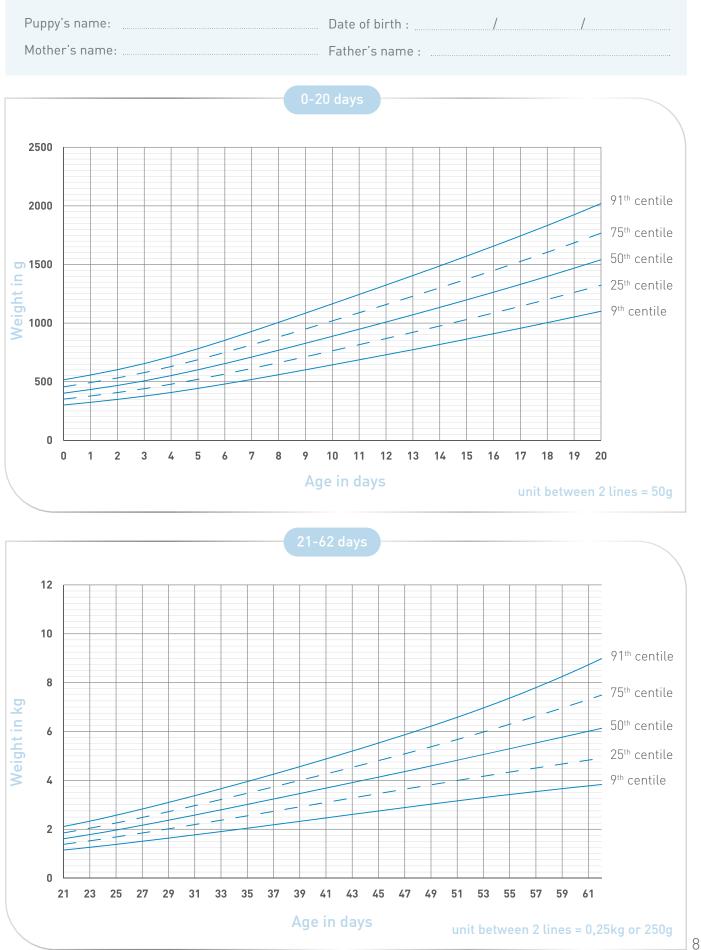
PUPPY EARLY GROWTH CHART AIREDALE TERRIER







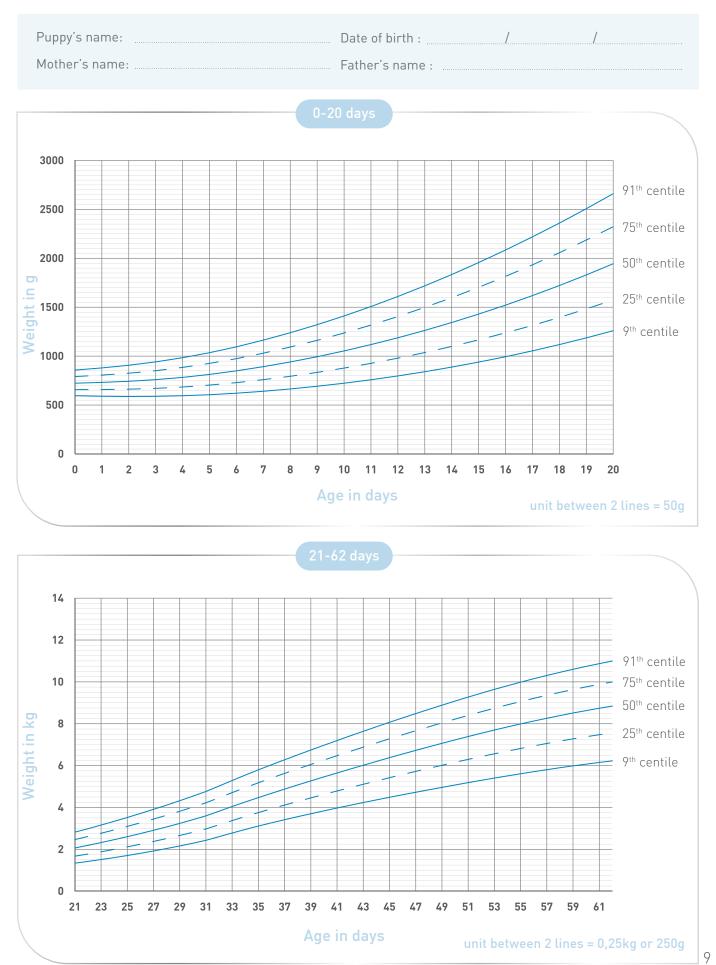






PUPPY EARLY GROWTH CHART ALASKAN MALAMUTE

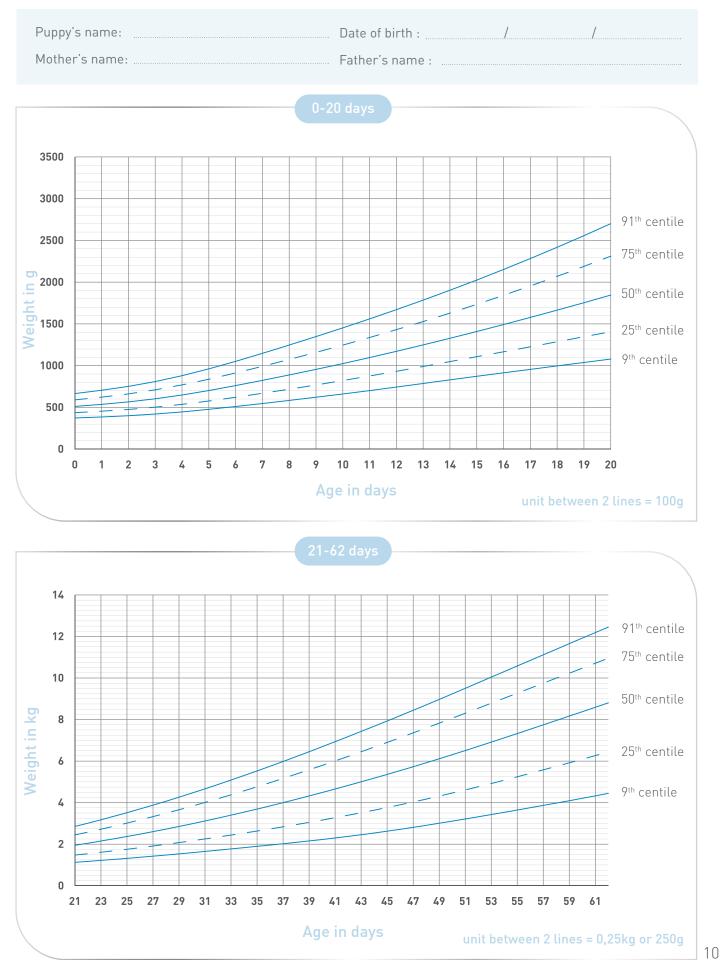






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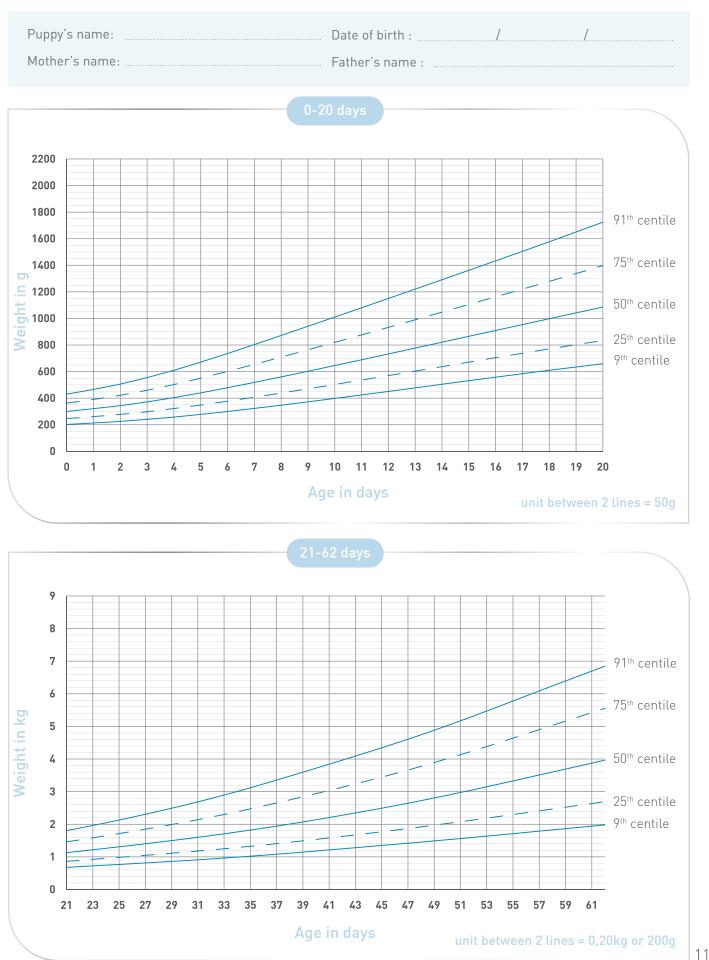






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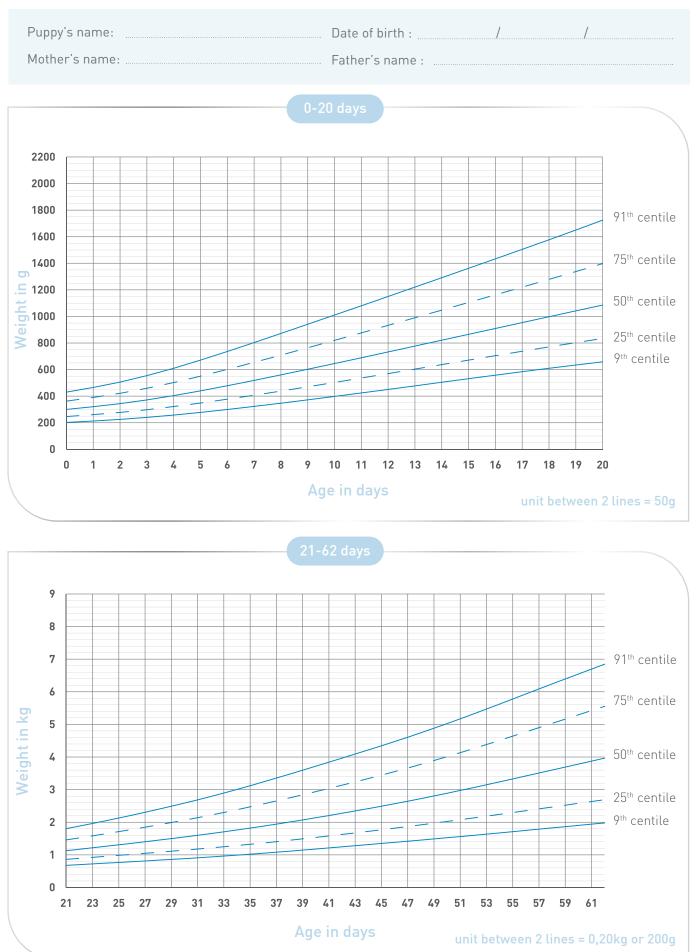






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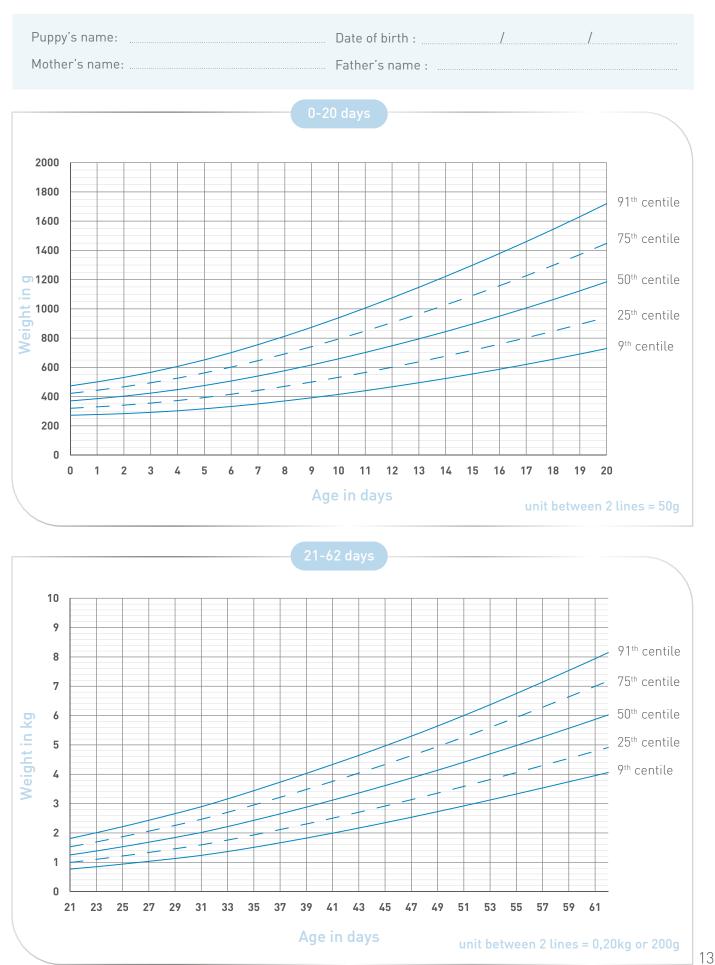






PUPPY EARLY GROWTH CHART AUSTRALIAN CATTLE DOG

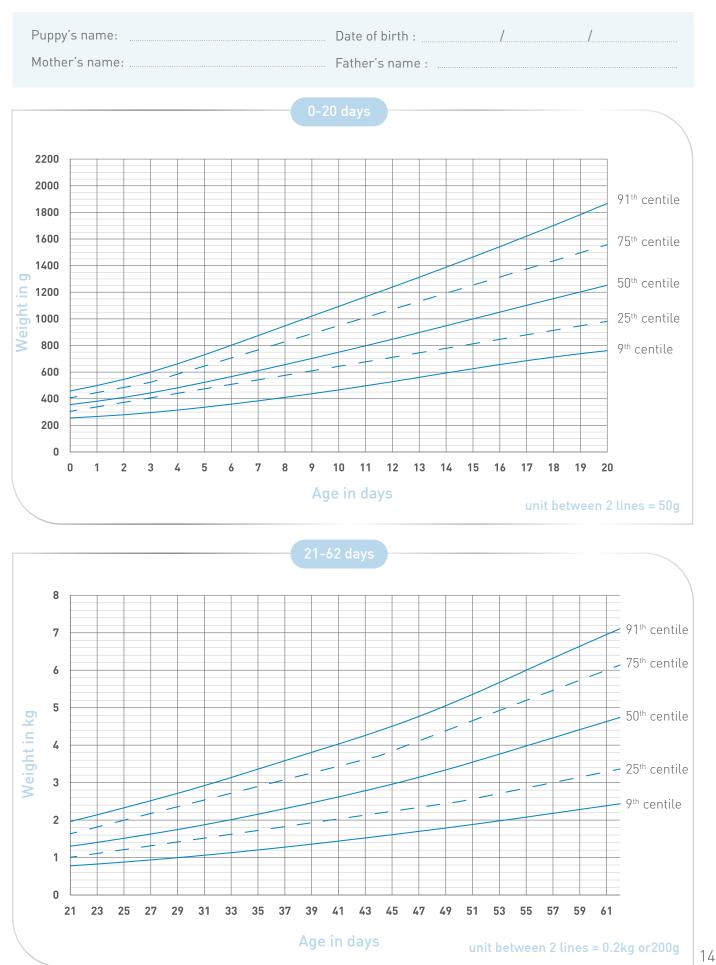






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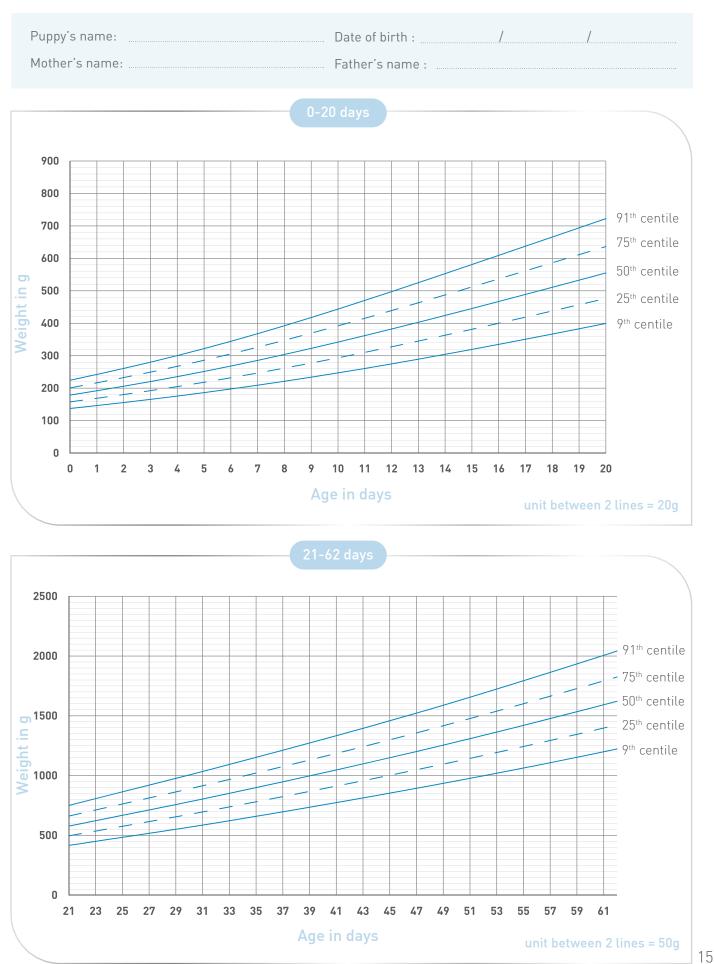






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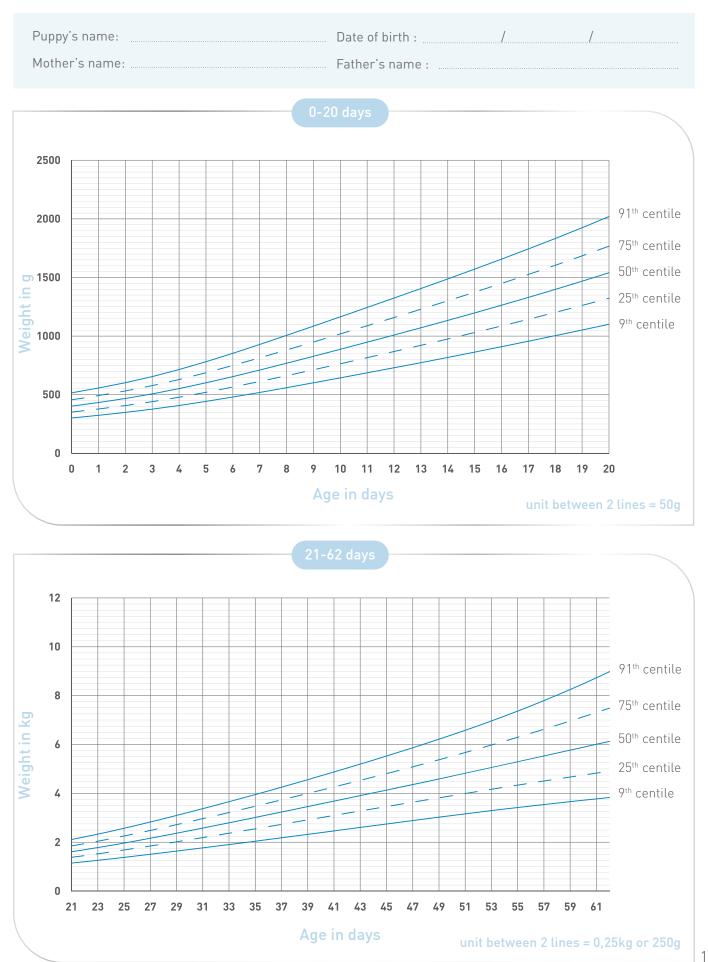






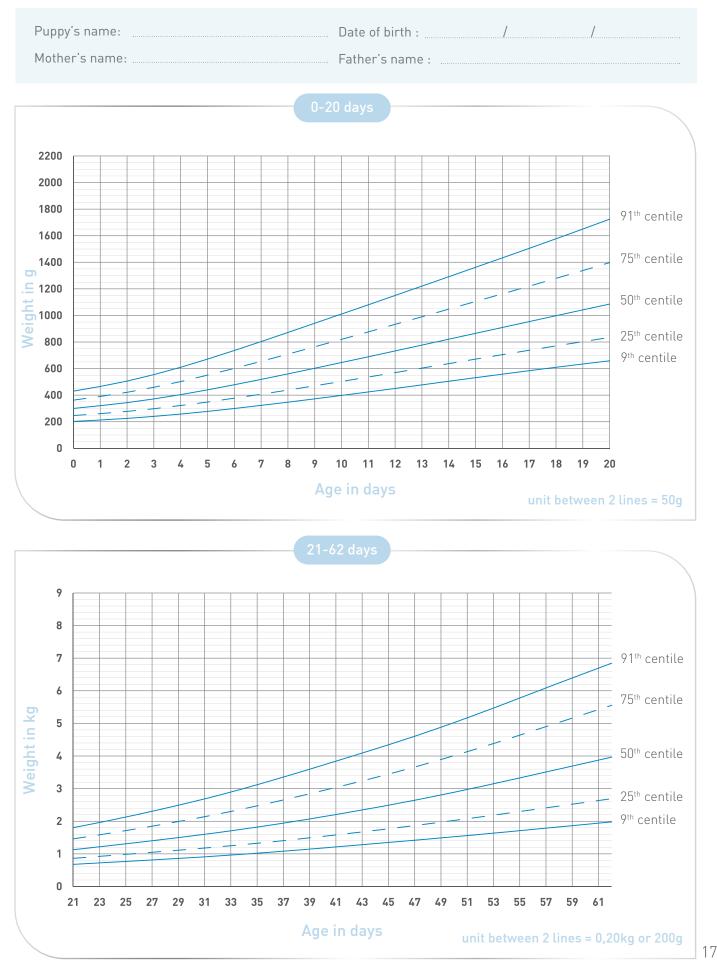
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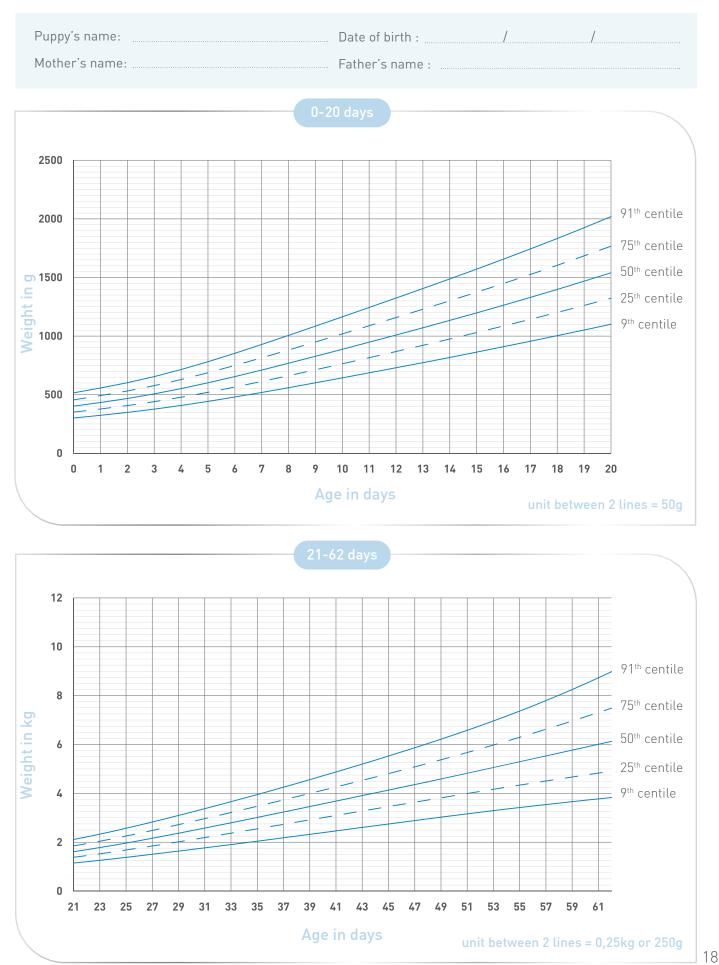






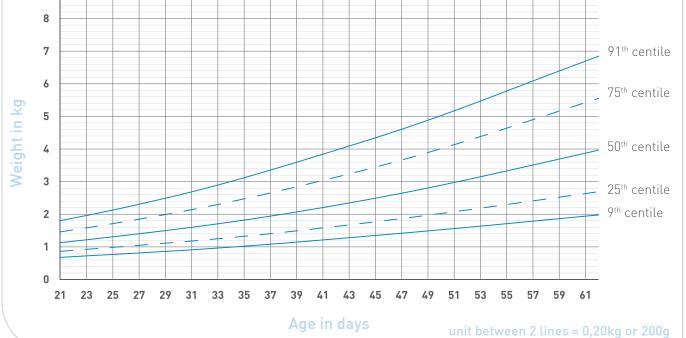
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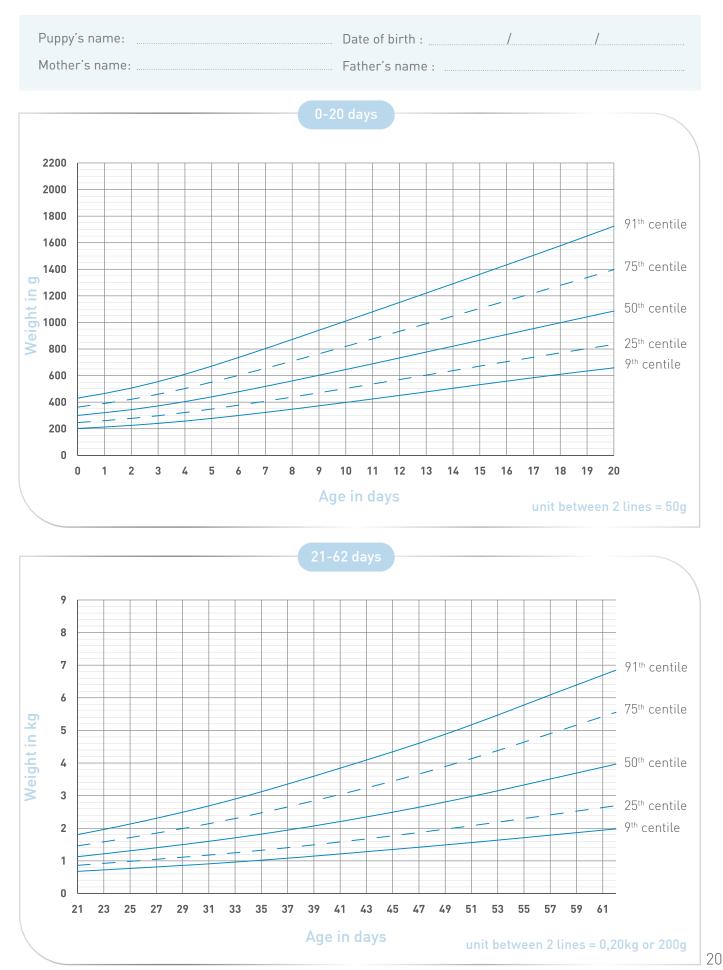






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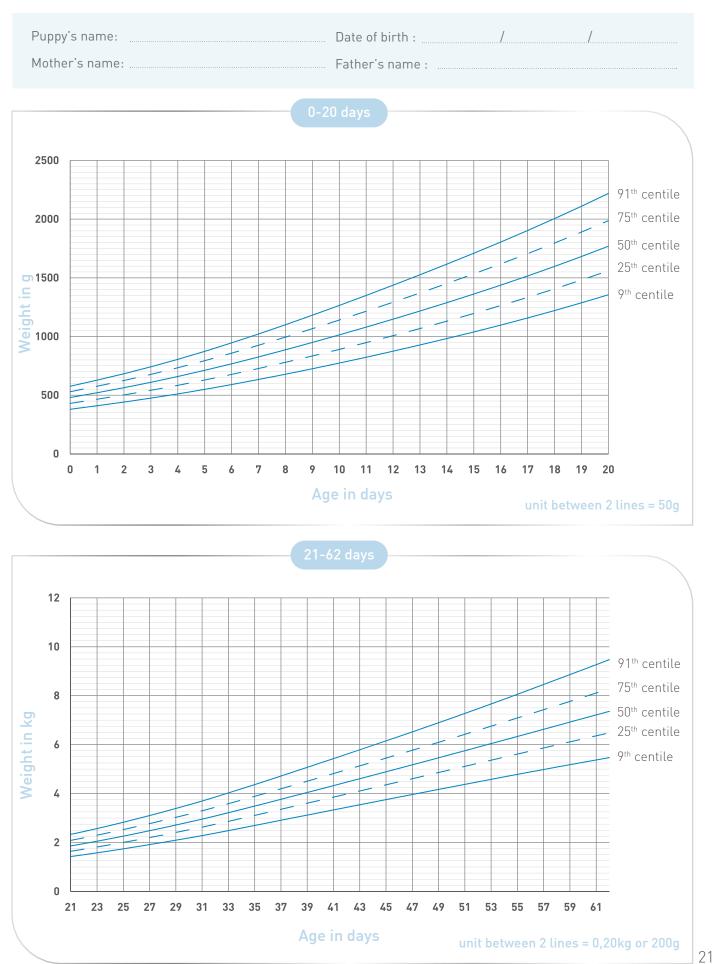






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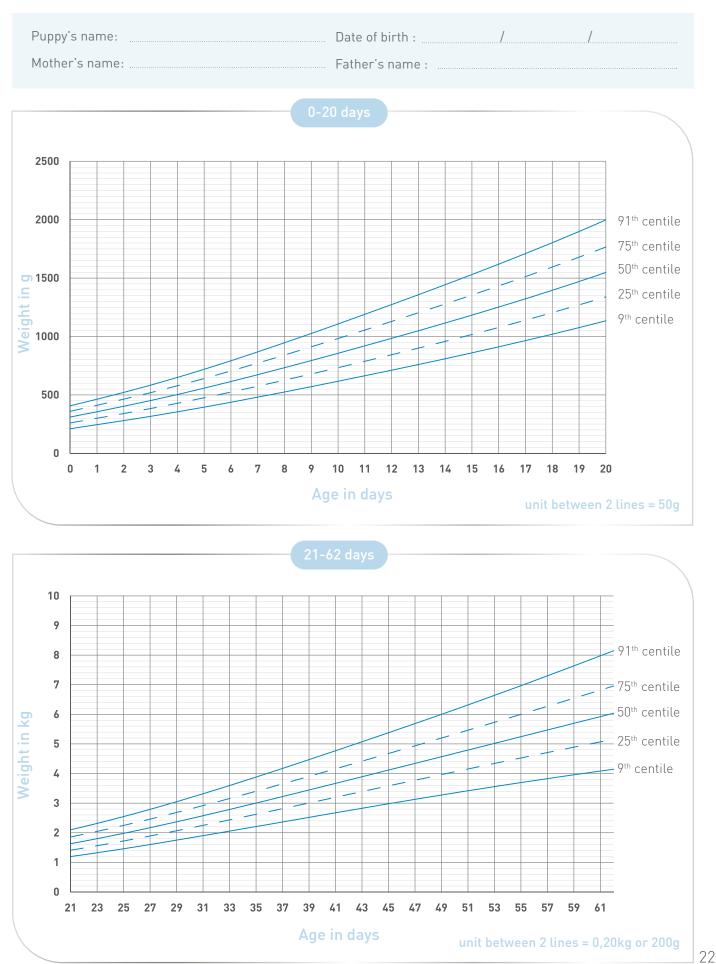






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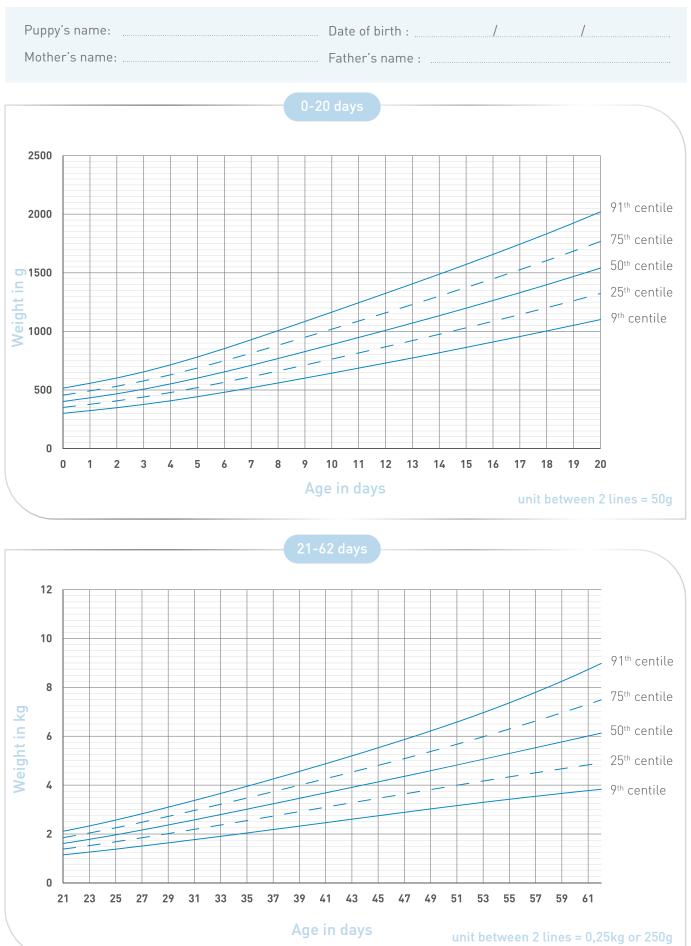






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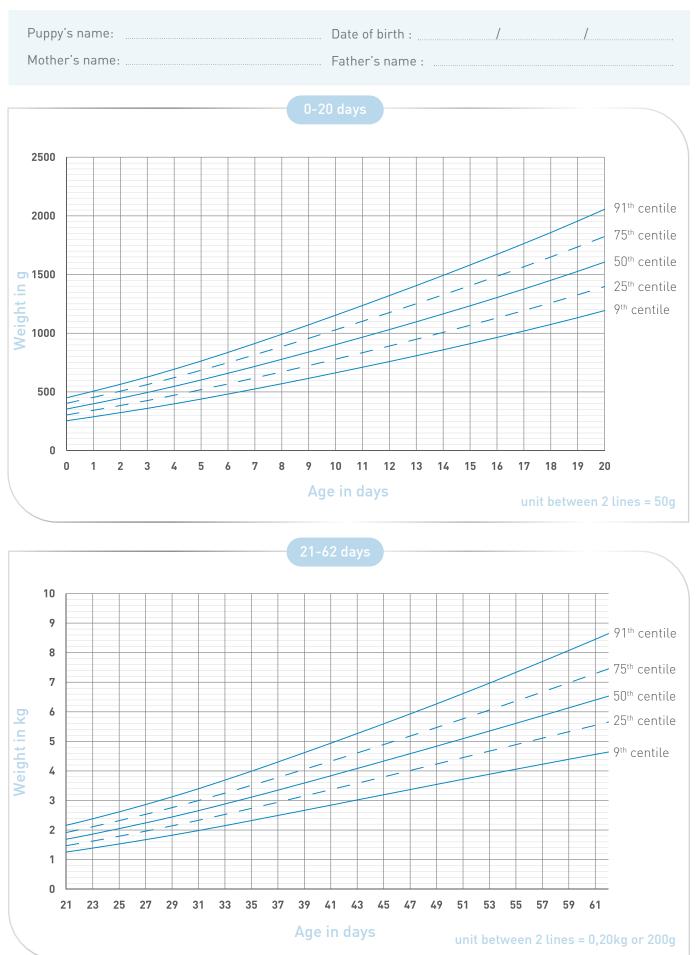






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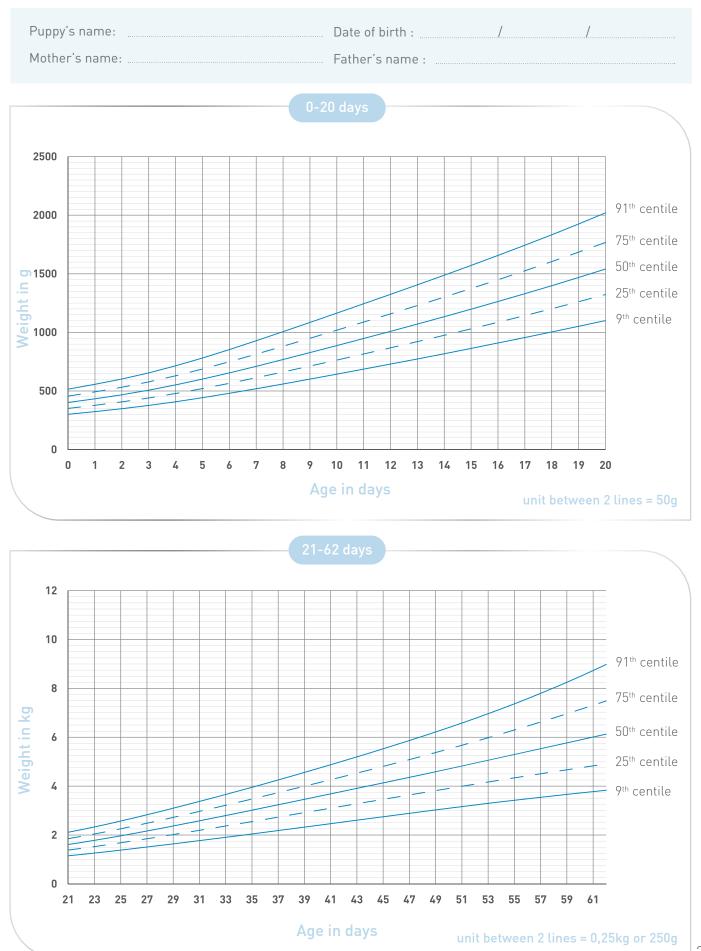






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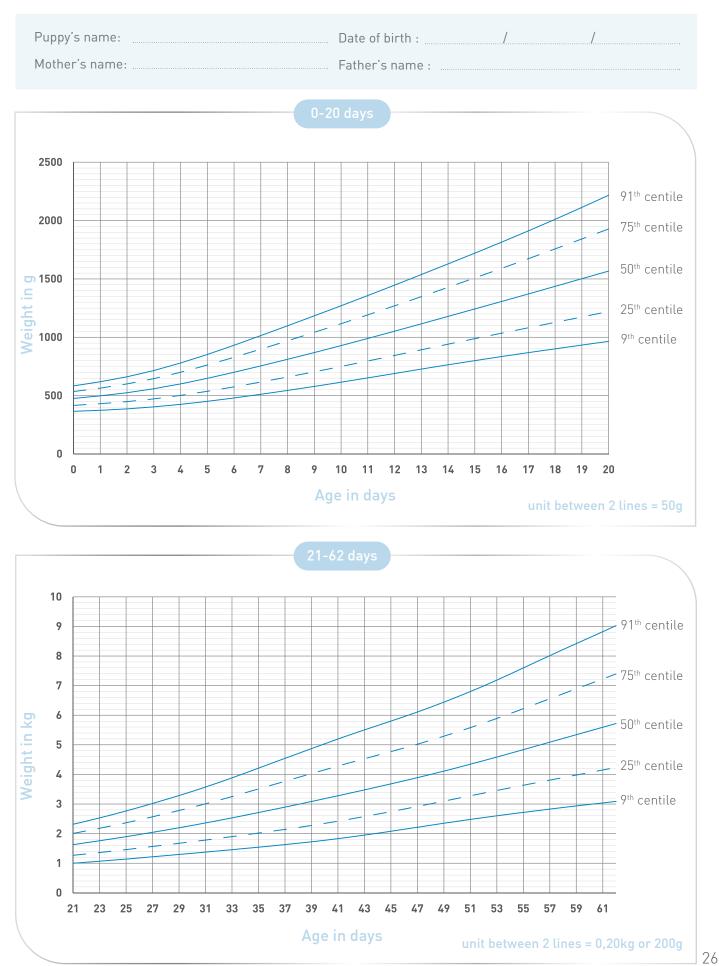






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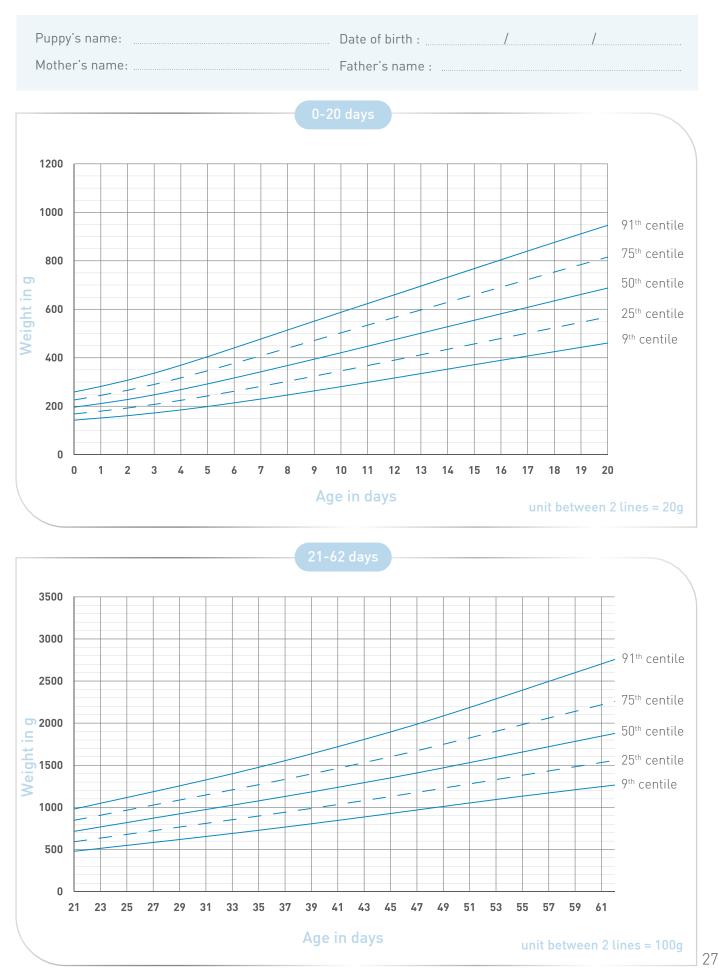






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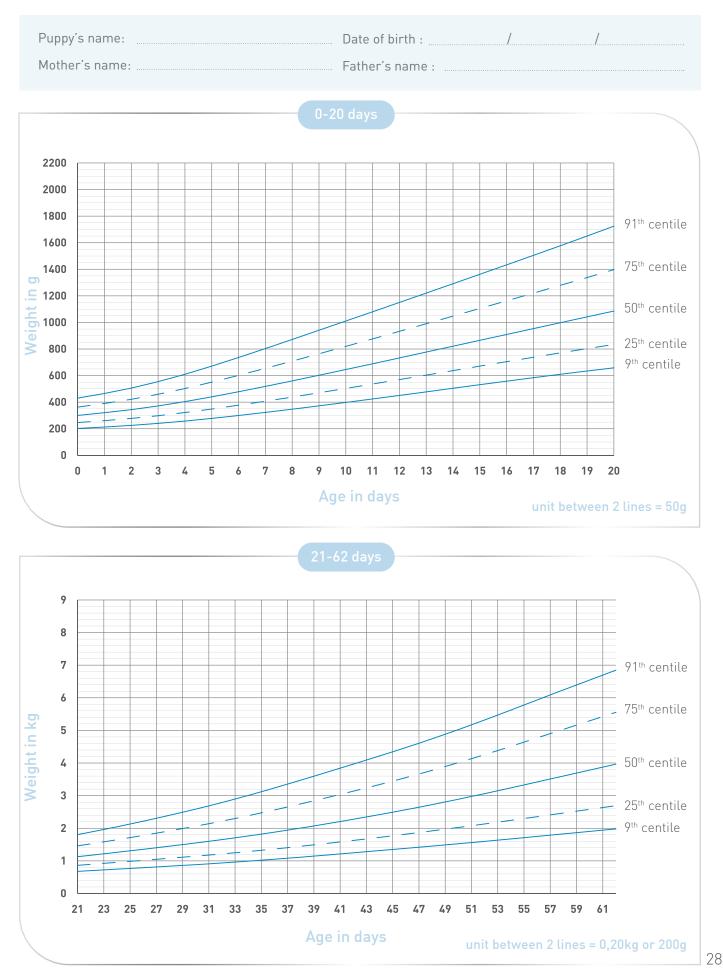






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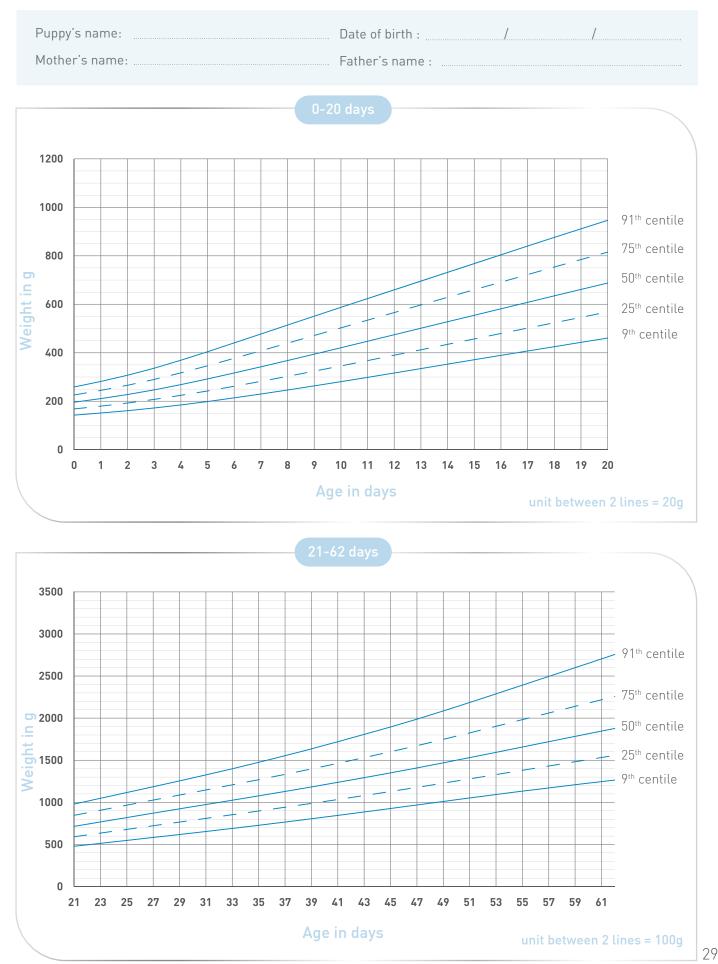






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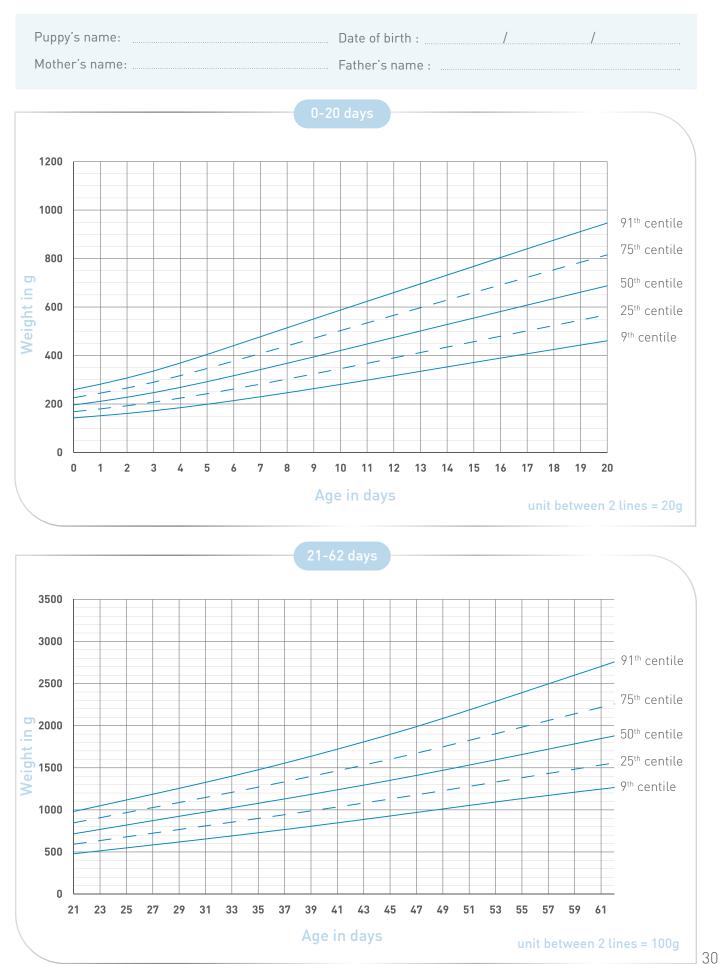


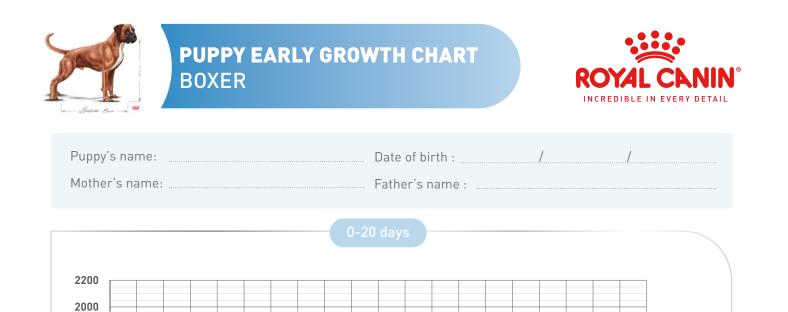




PUPPY EARLY GROWTH CHART BOSTON TERRIER







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□ <u>
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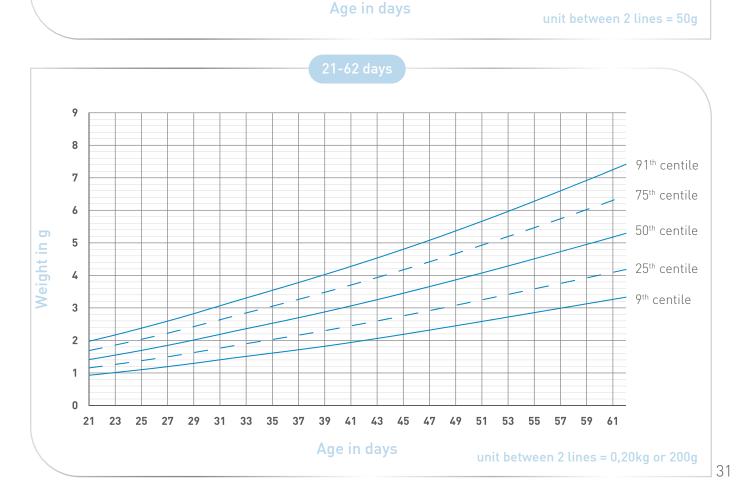
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2

3 4

7 8

5 6



10 11 12

13 14 15

16

17

18 19

9

91th centile

75th centile

50th centile

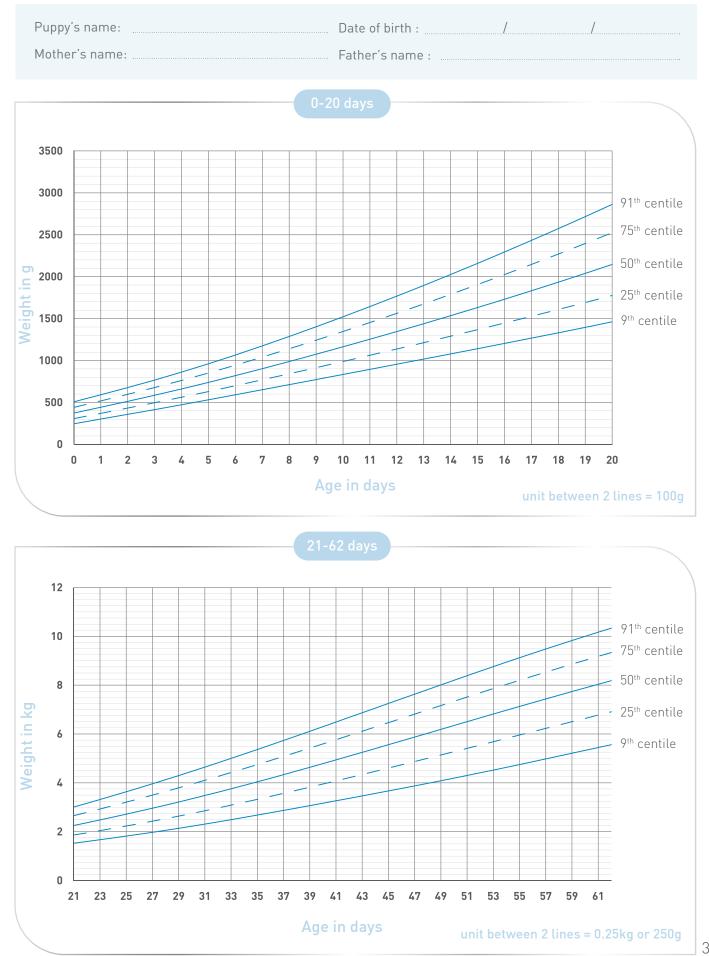
25th centile

9th centile

20



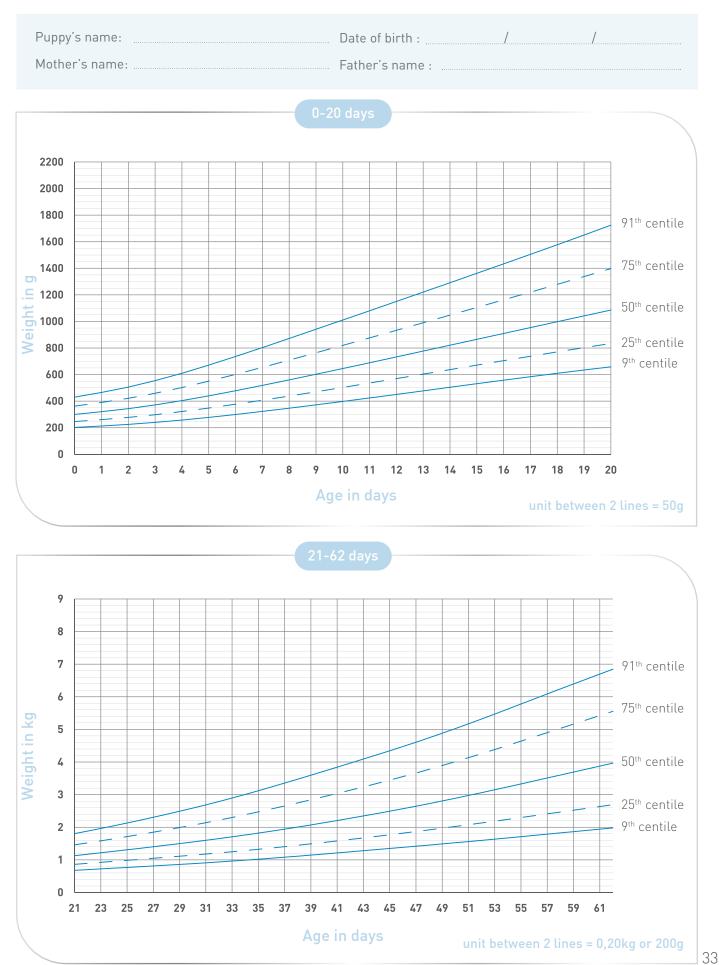






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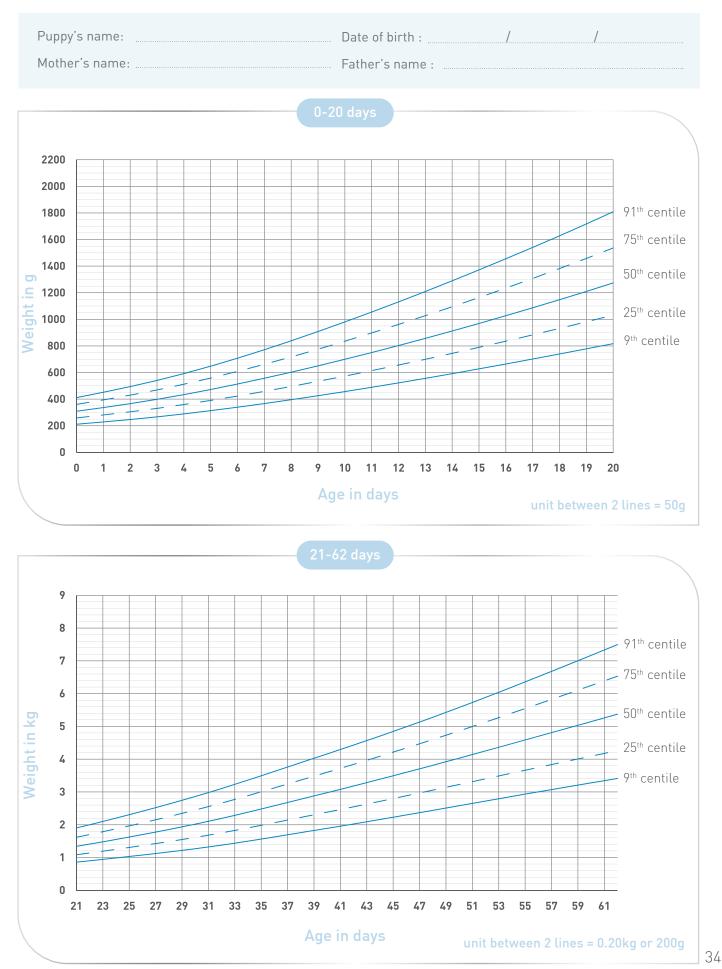






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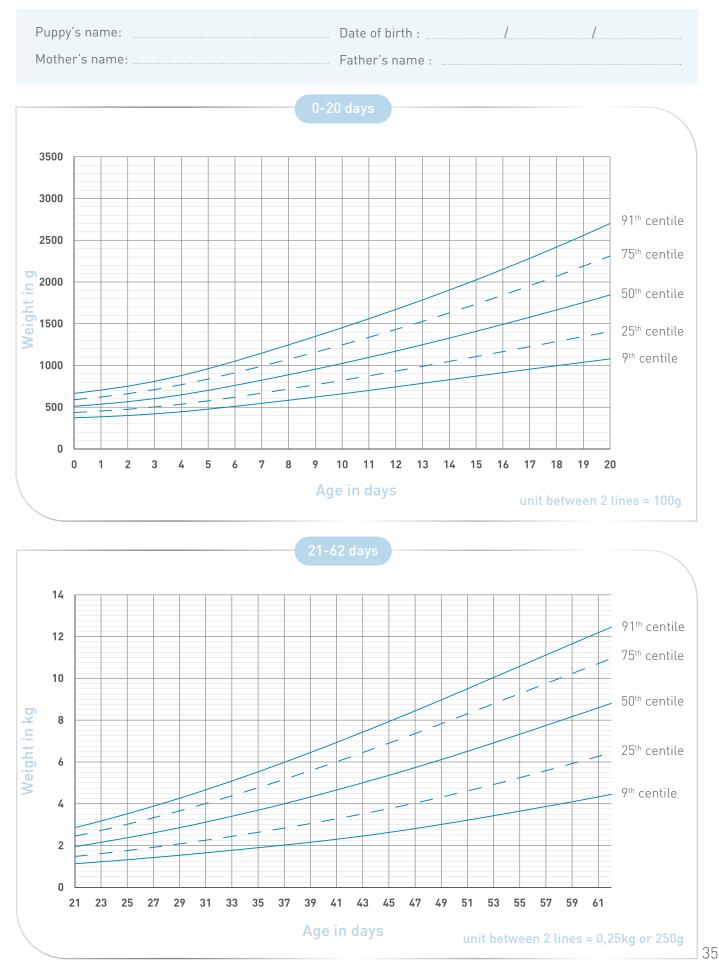






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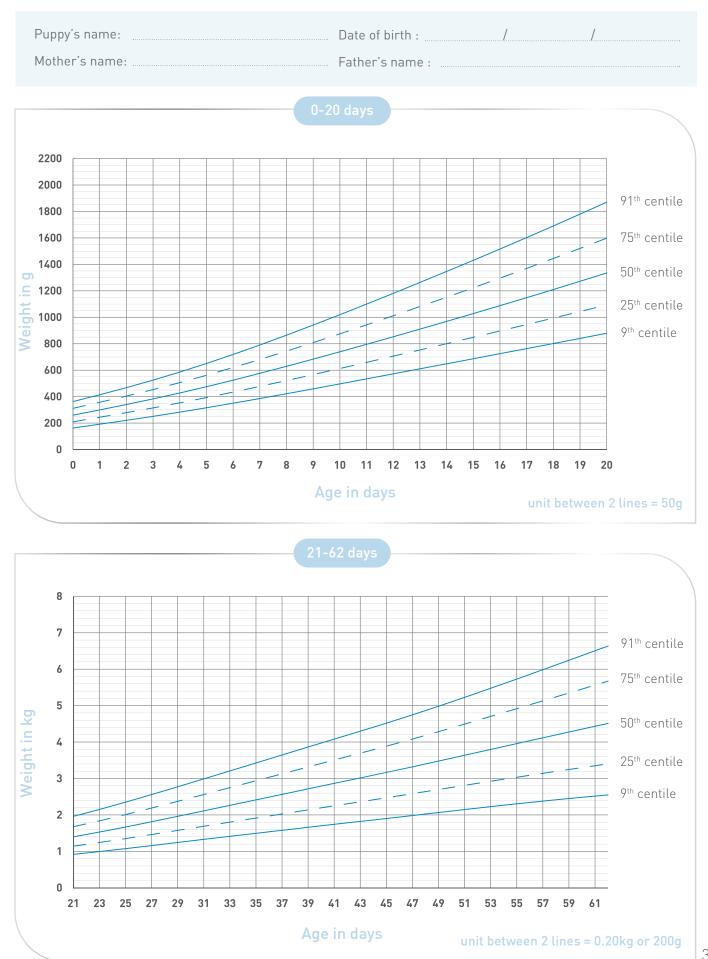






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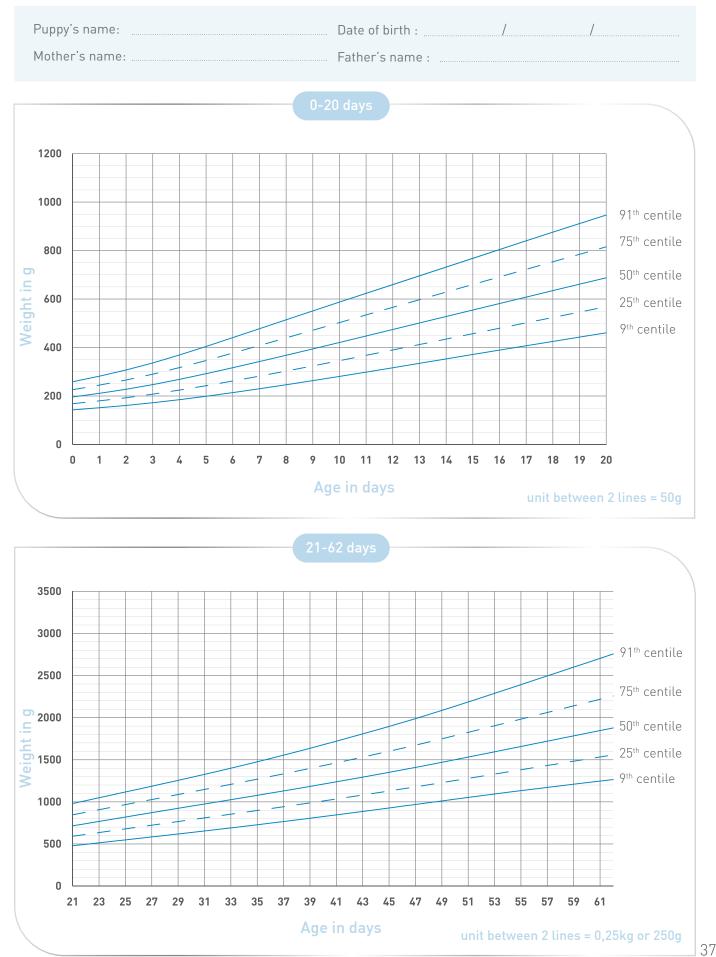






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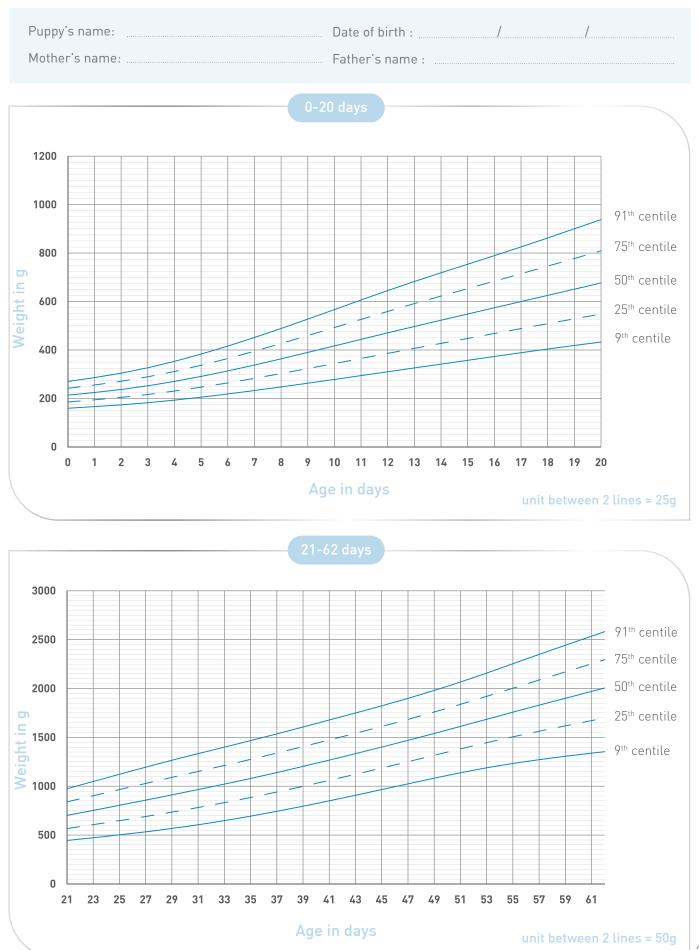






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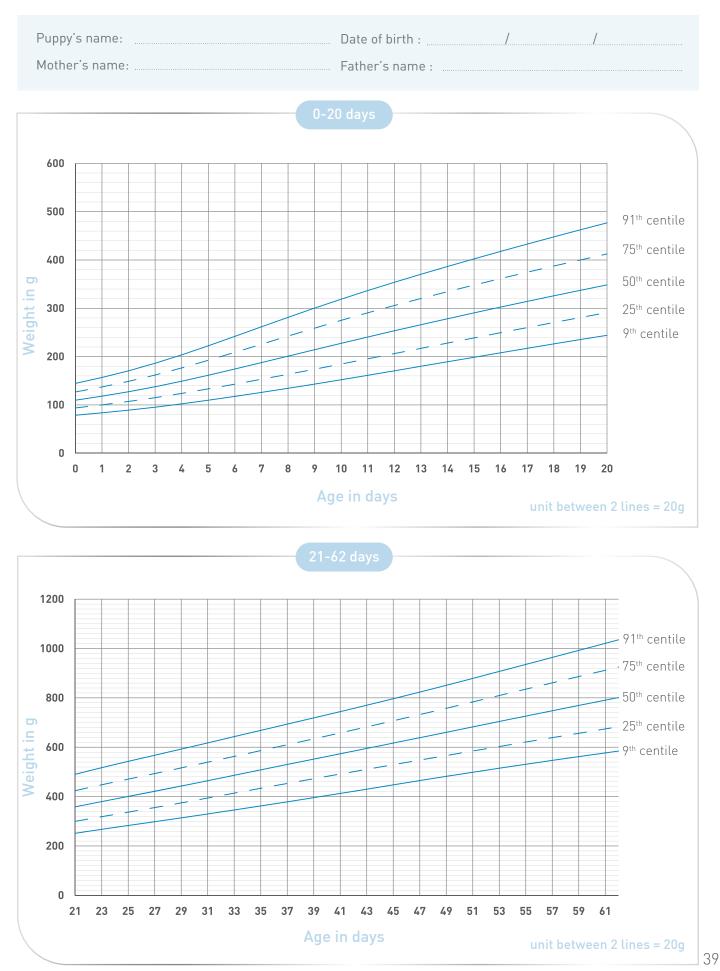






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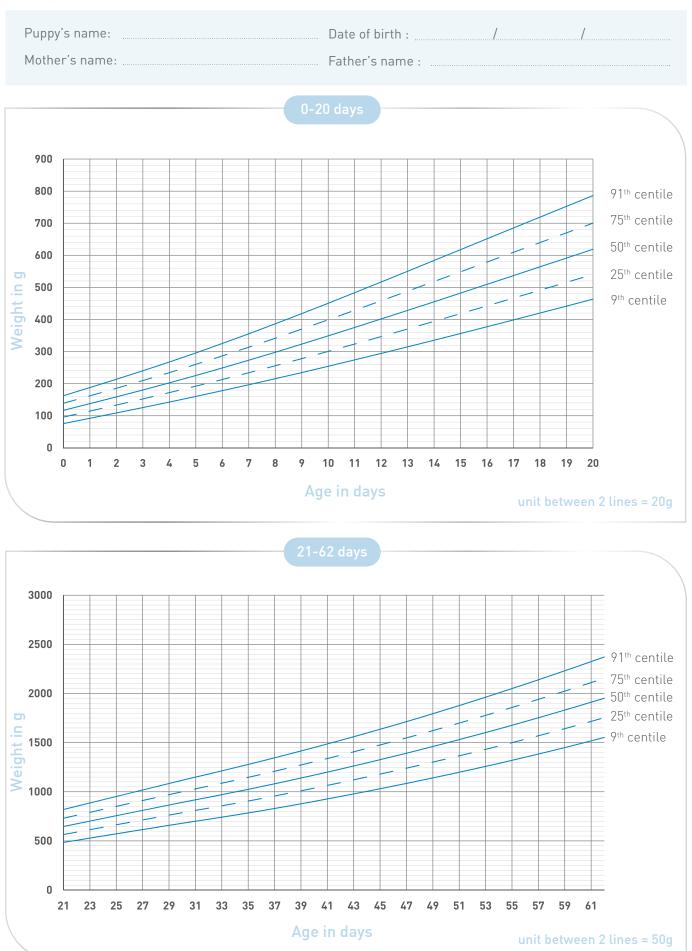






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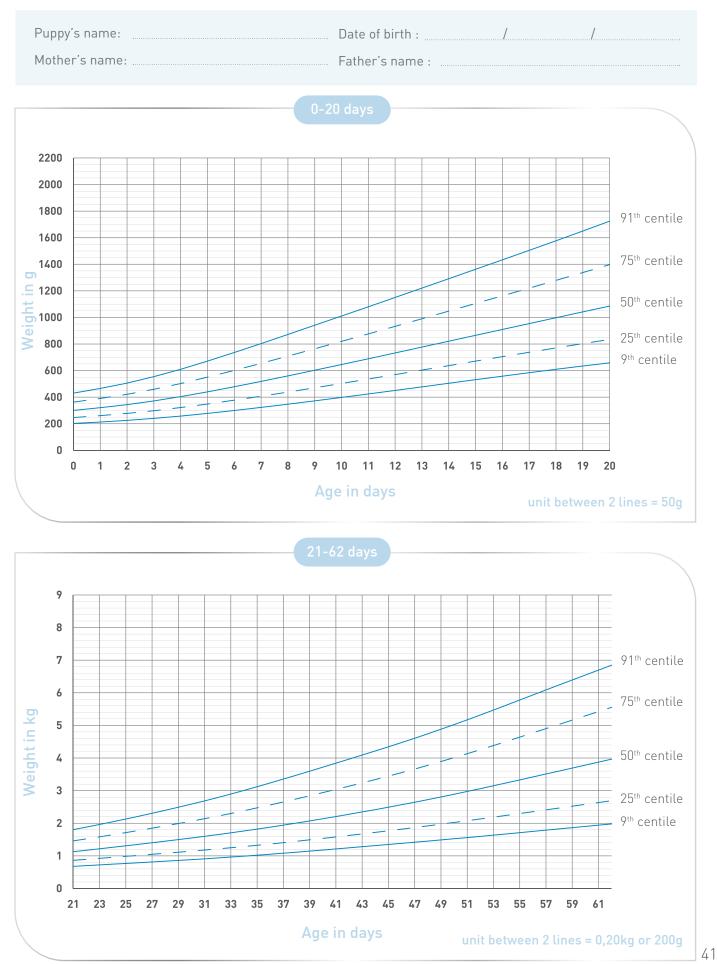






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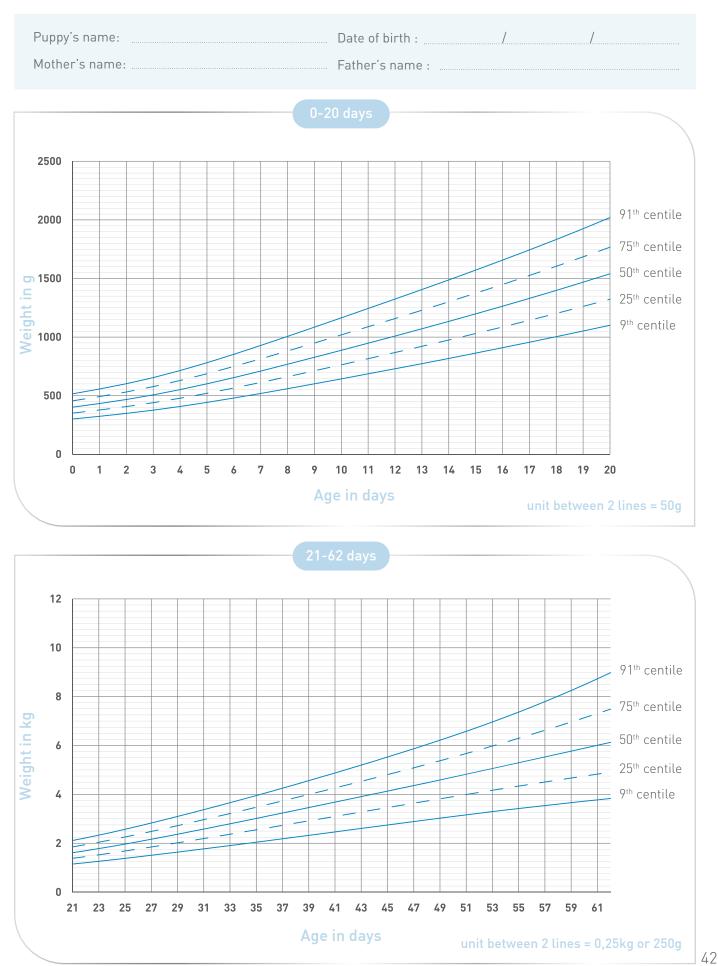






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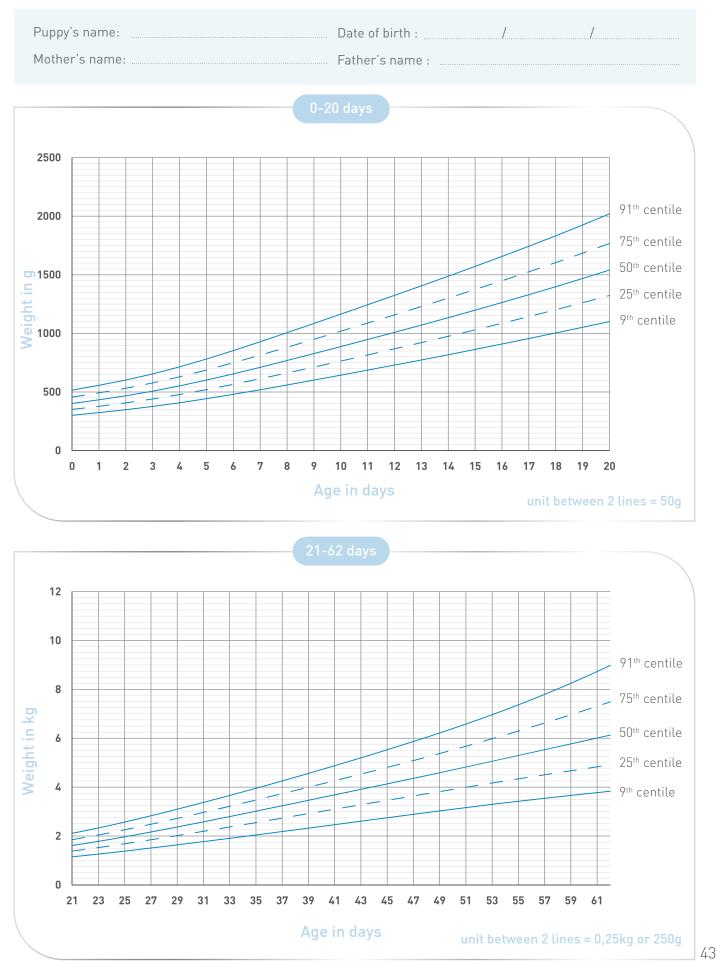






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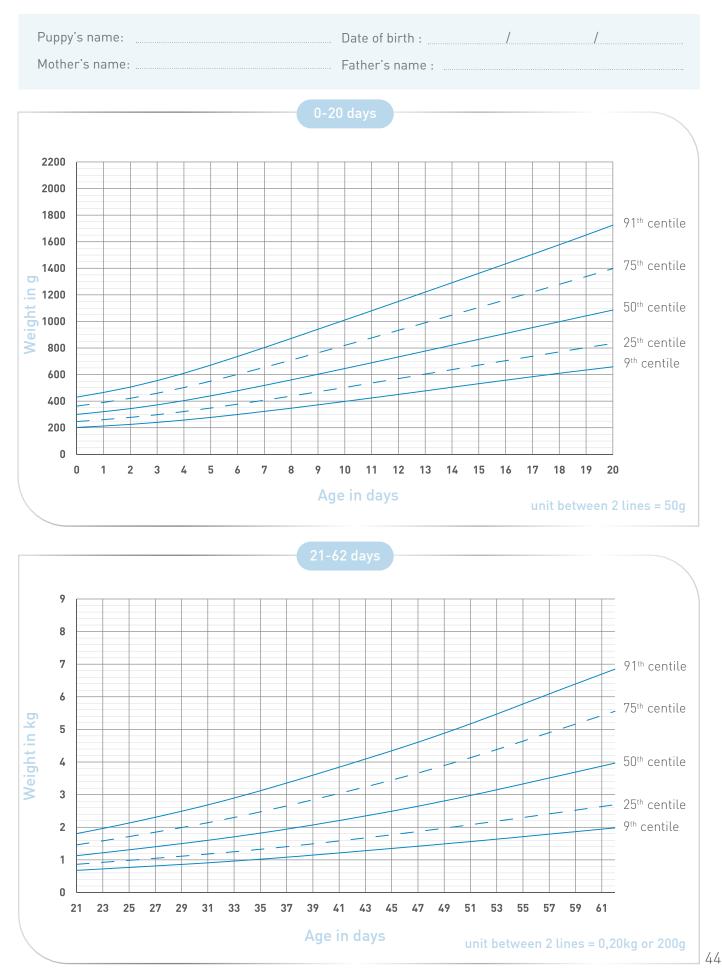






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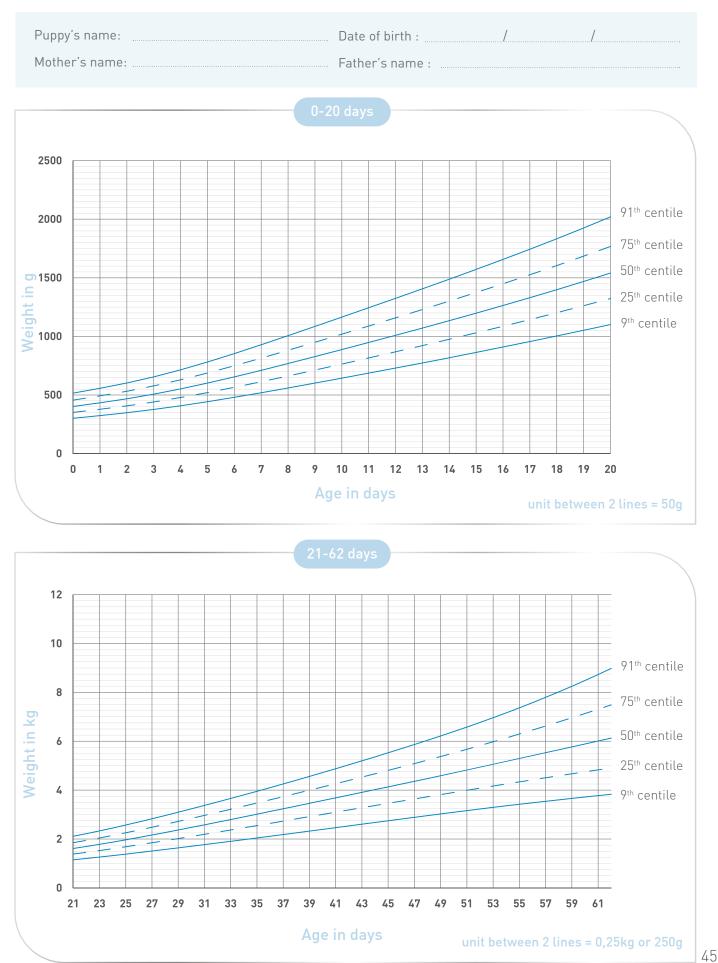






PUPPY EARLY GROWTH CHART CONTINENTAL BULLDOG

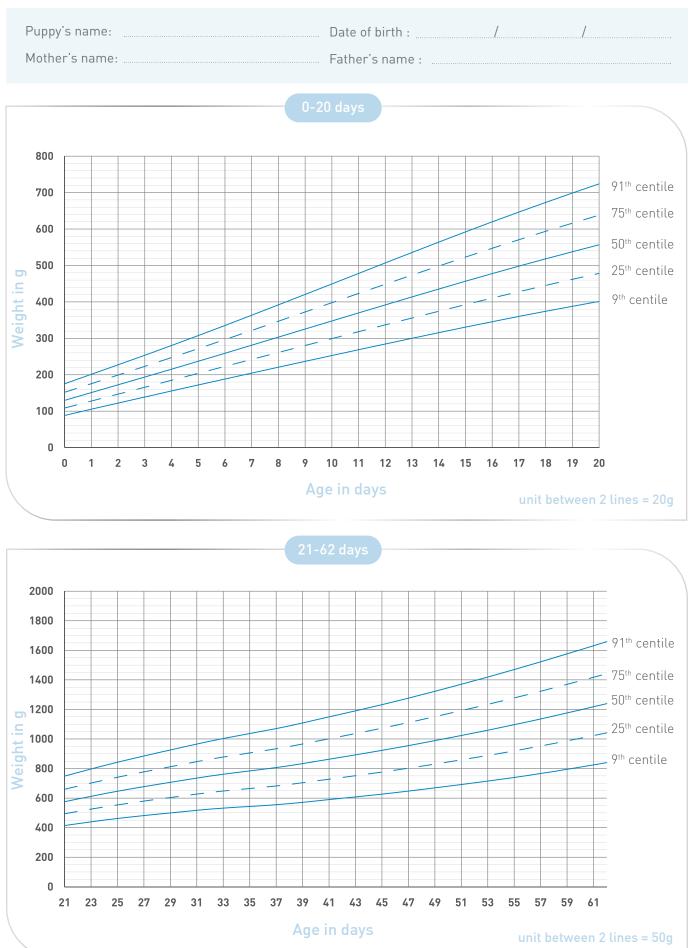






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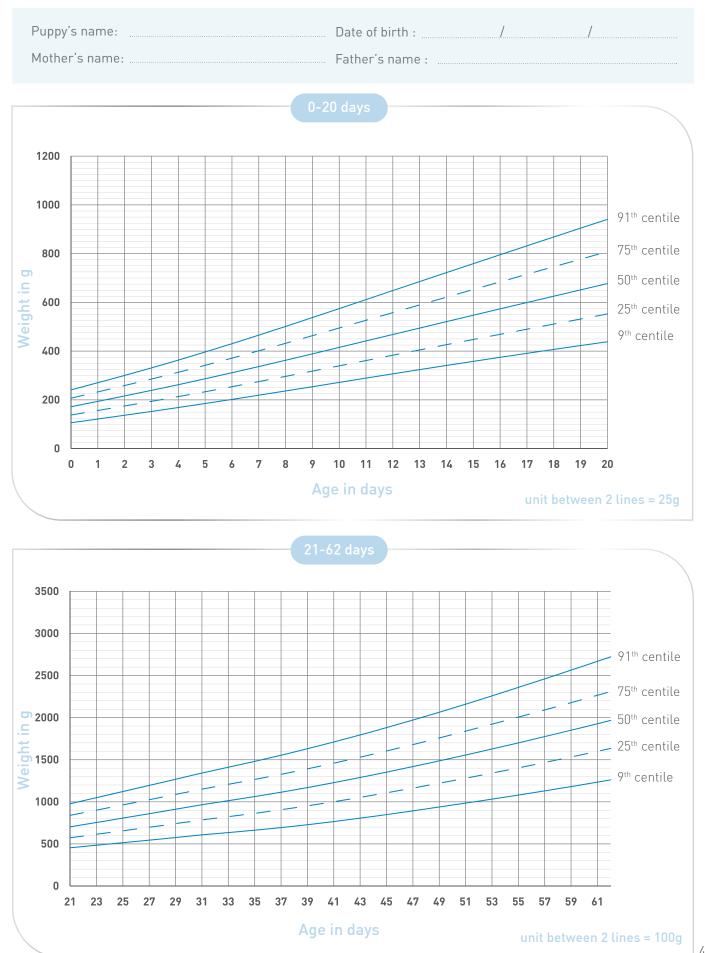






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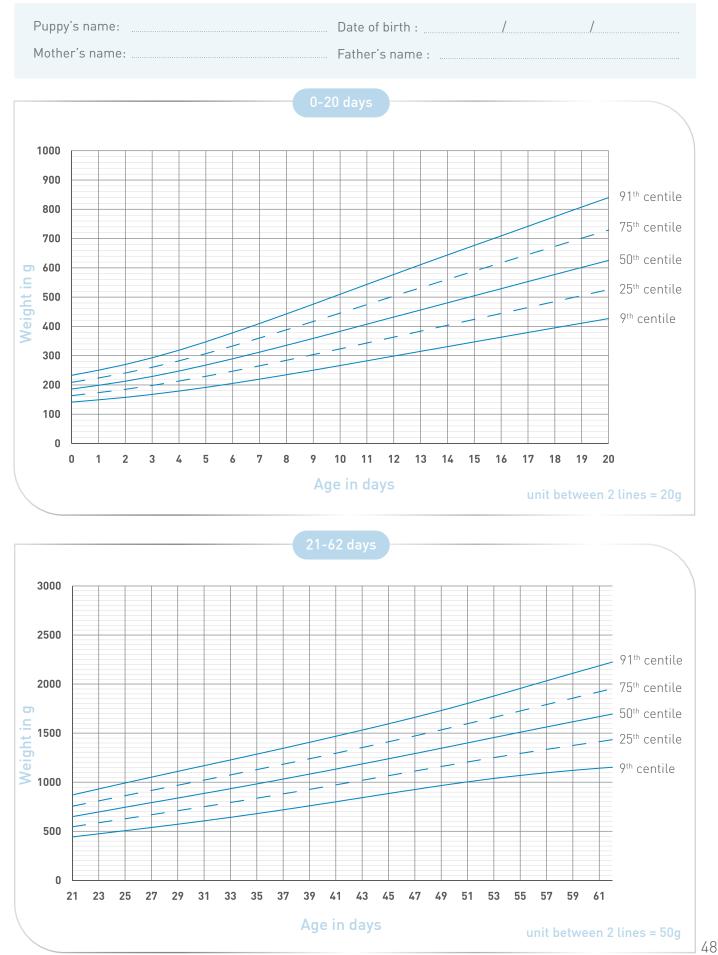






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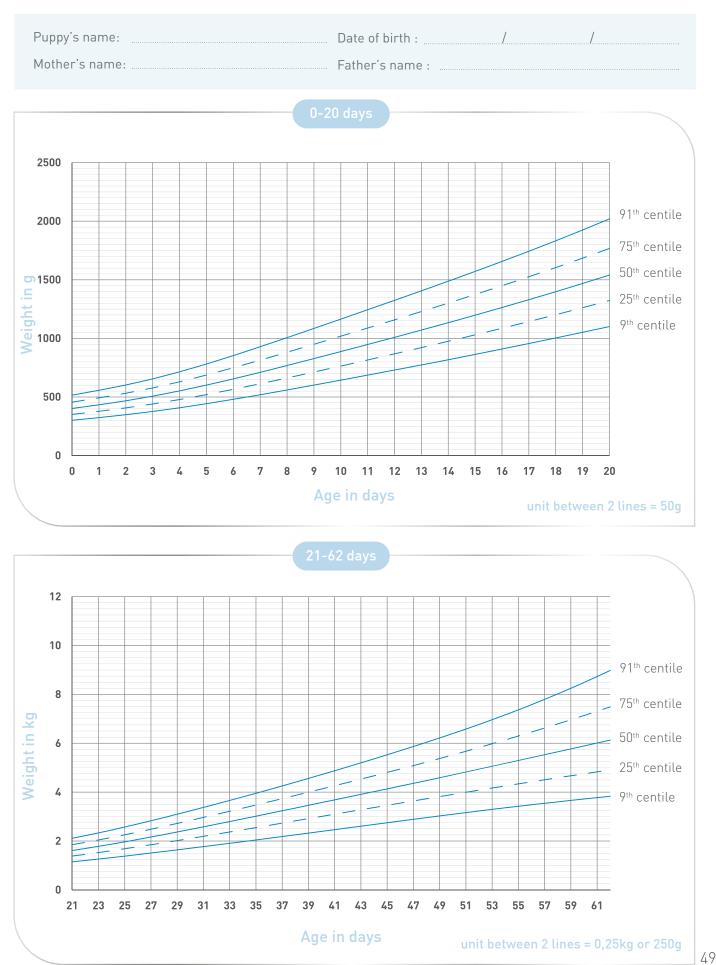


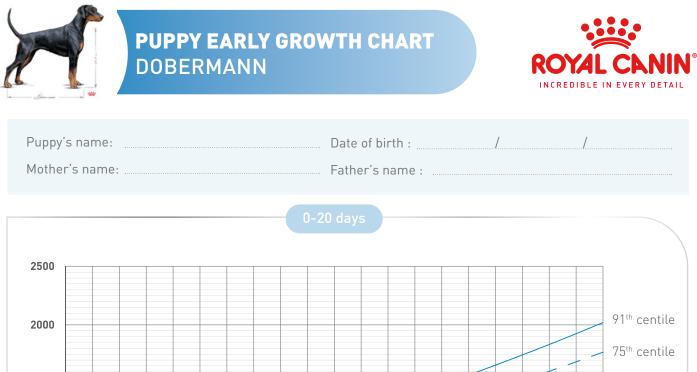


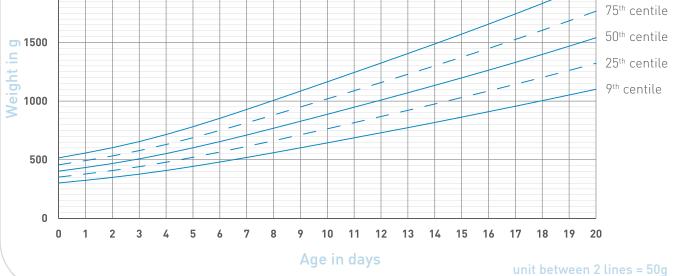


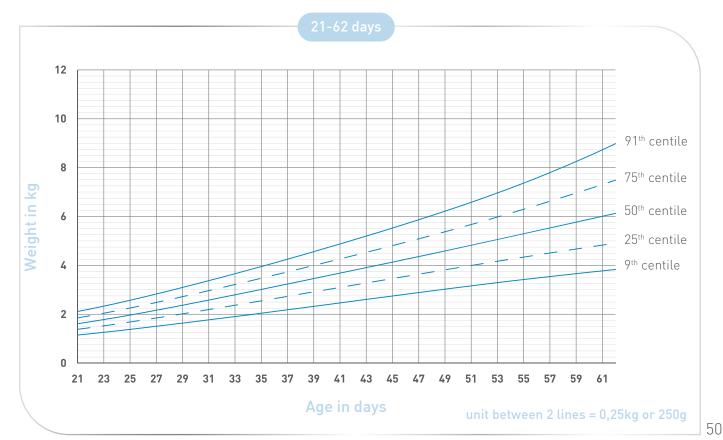
PUPPY EARLY GROWTH CHART DALMATIAN









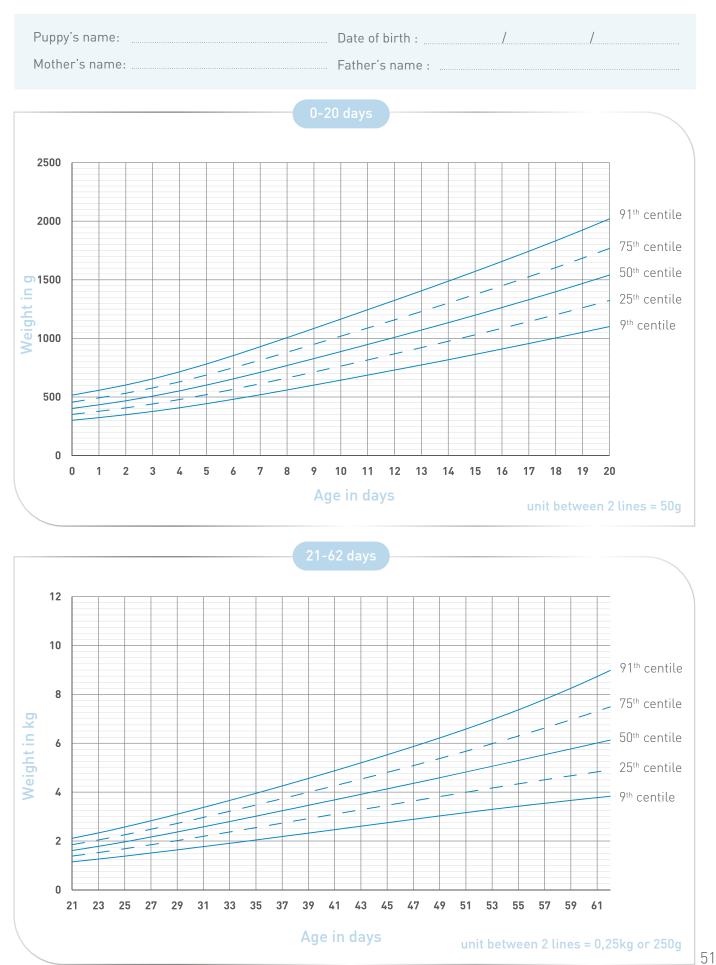


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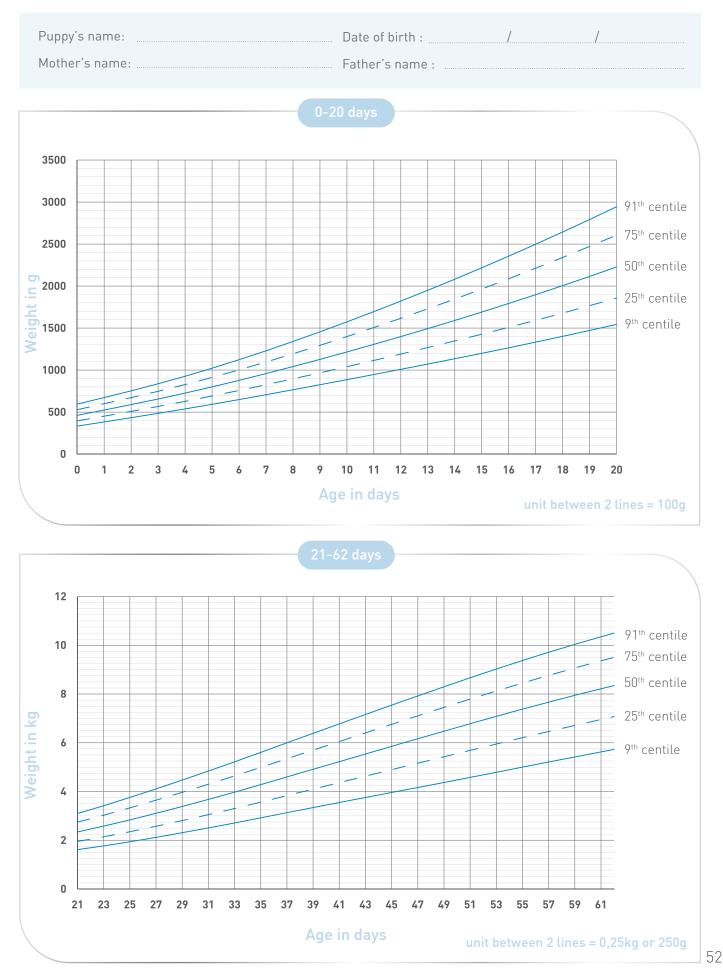






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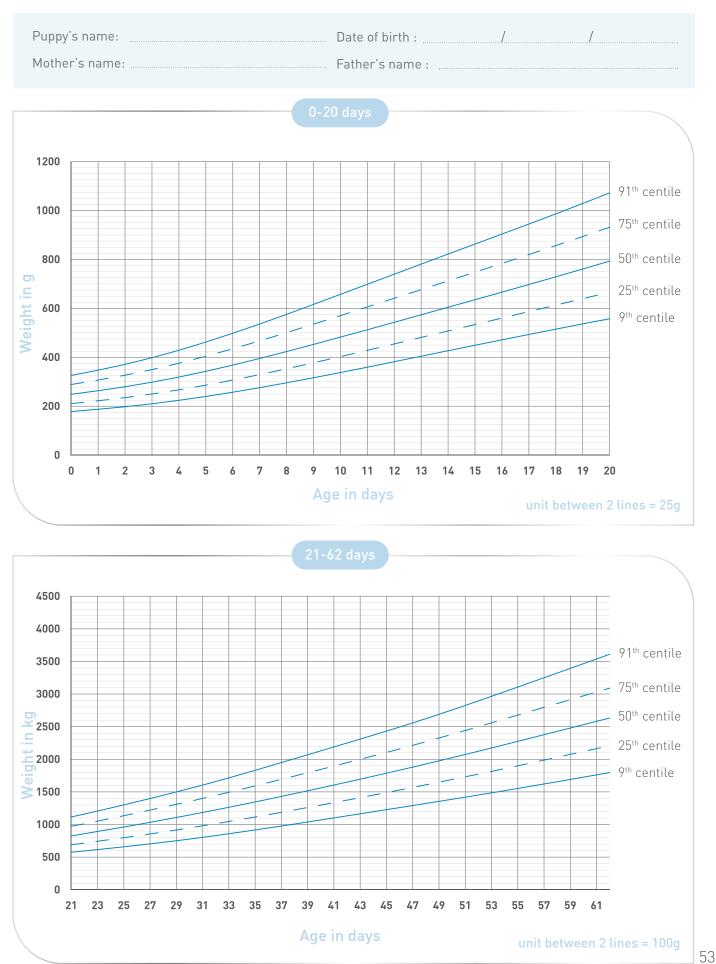






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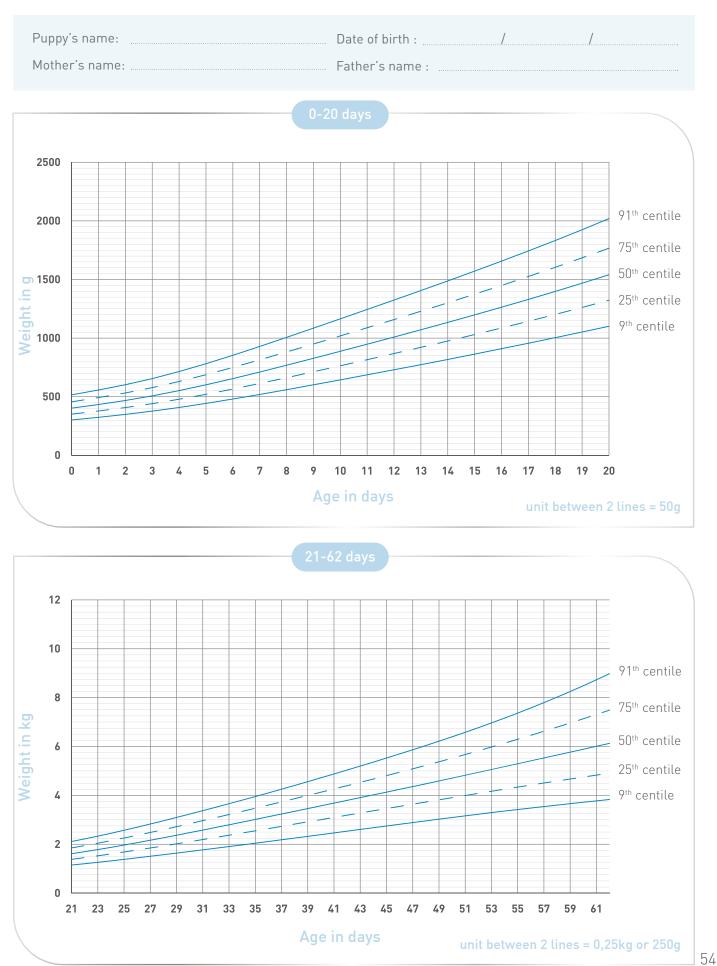






PUPPY EARLY GROWTH CHART ENGLISH POINTER

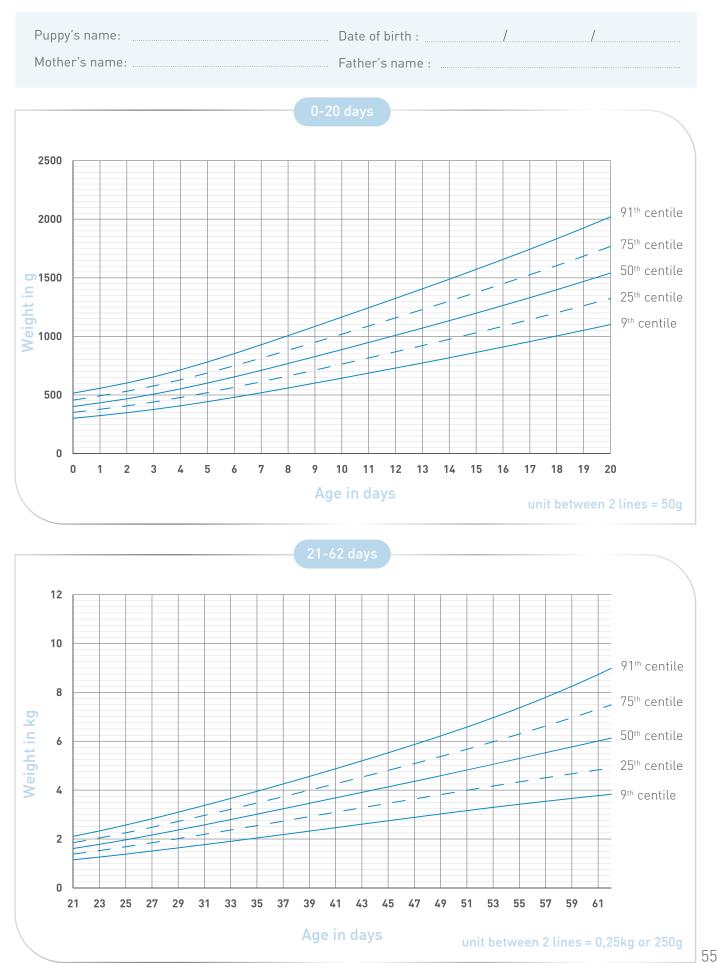






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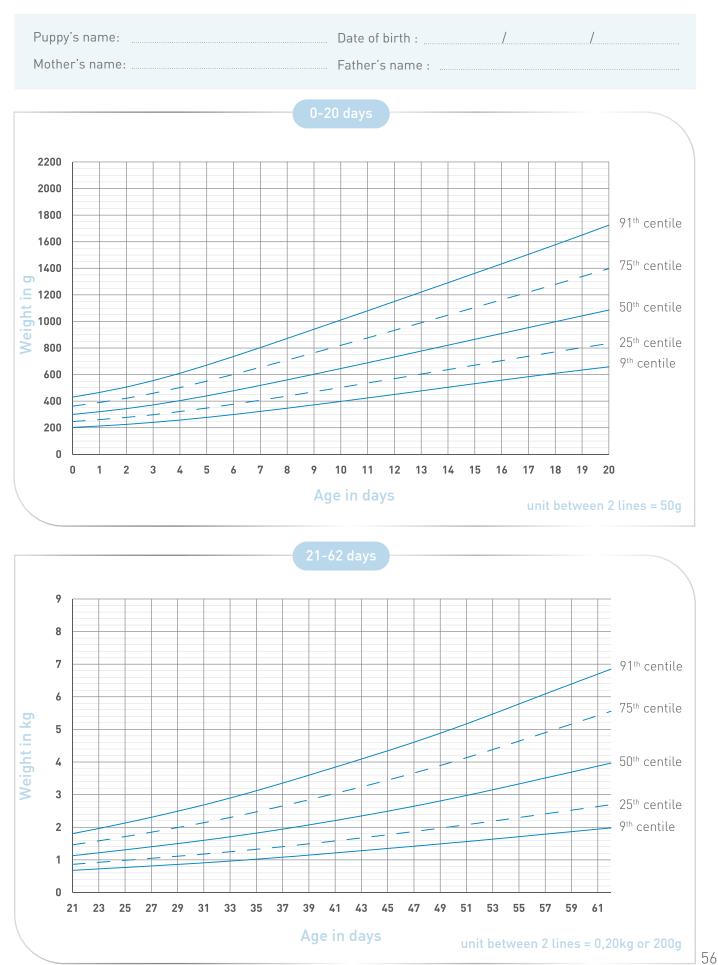




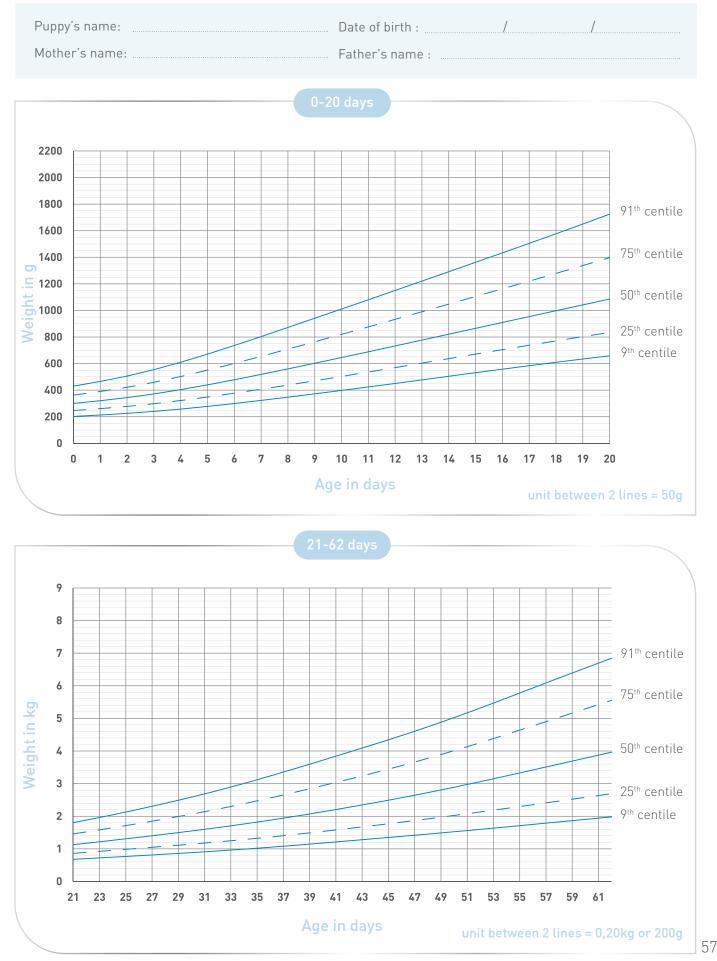


PUPPY EARLY GROWTH CHART ENTLEBUCH CATTLE DOG





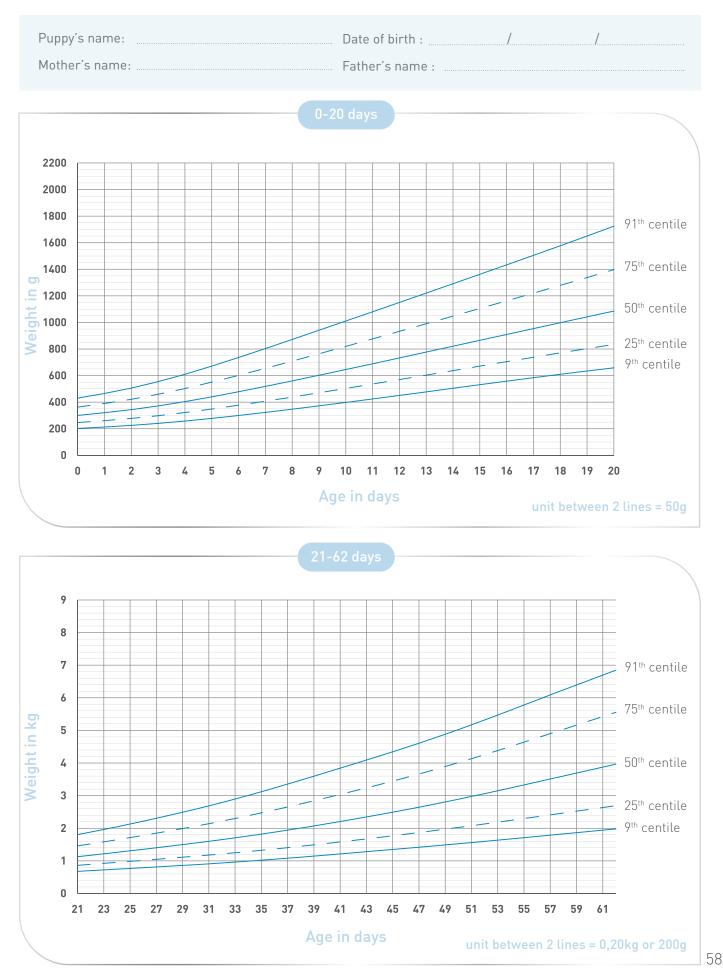






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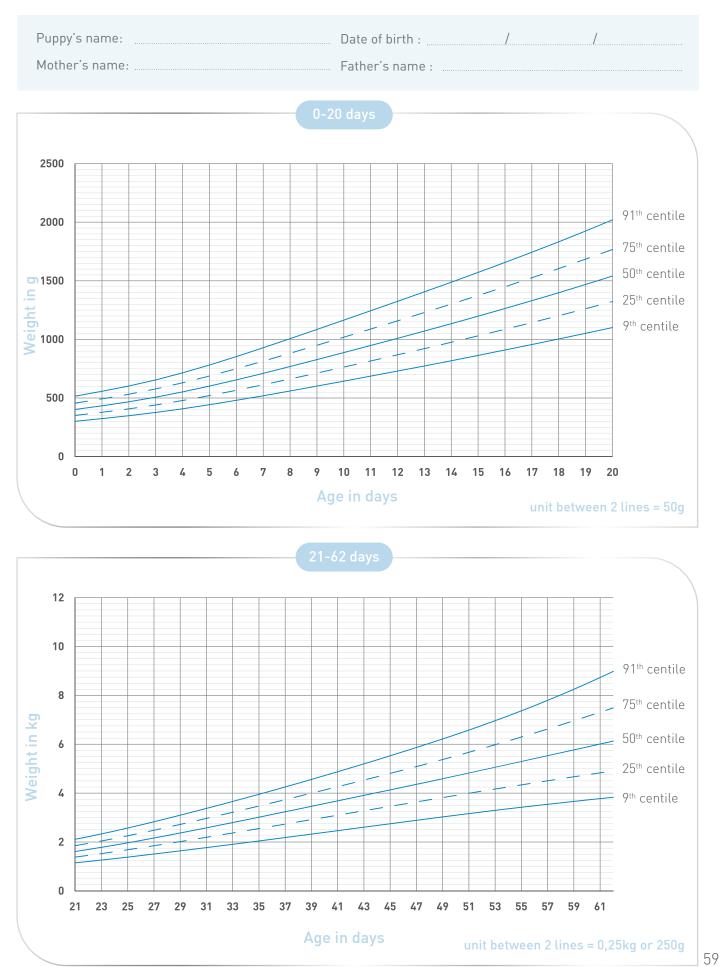






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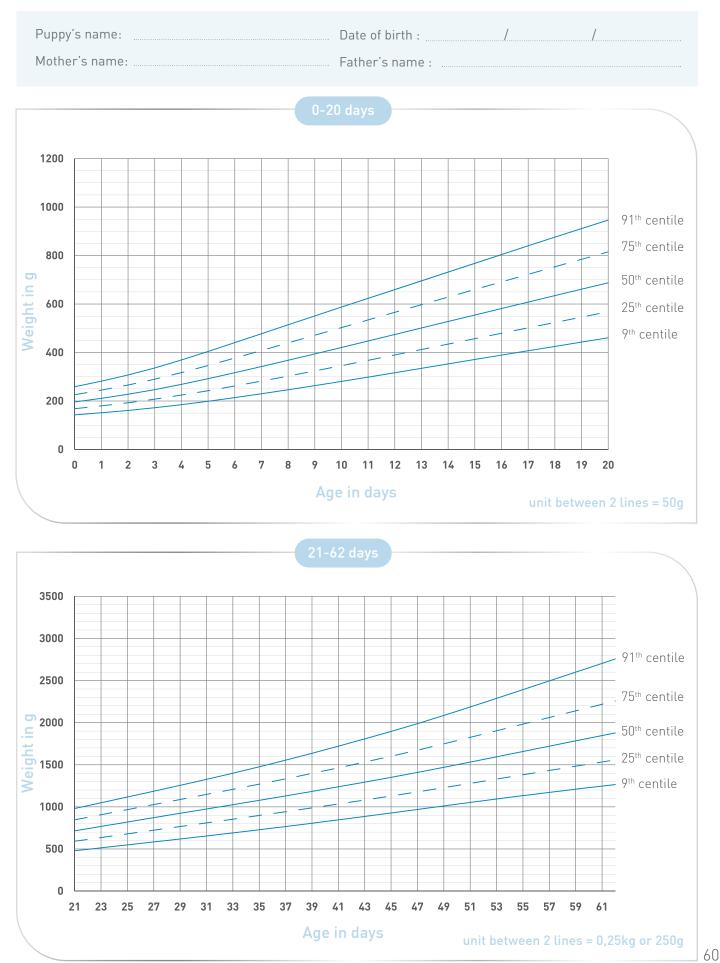






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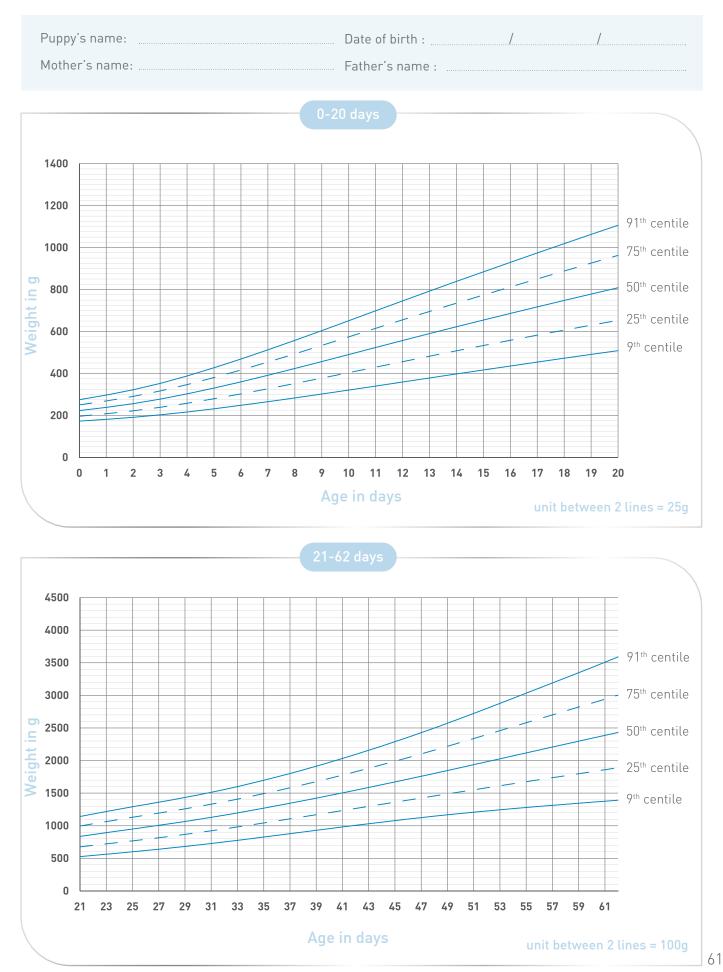






PUPPY EARLY GROWTH CHART FRENCH BULLDOG

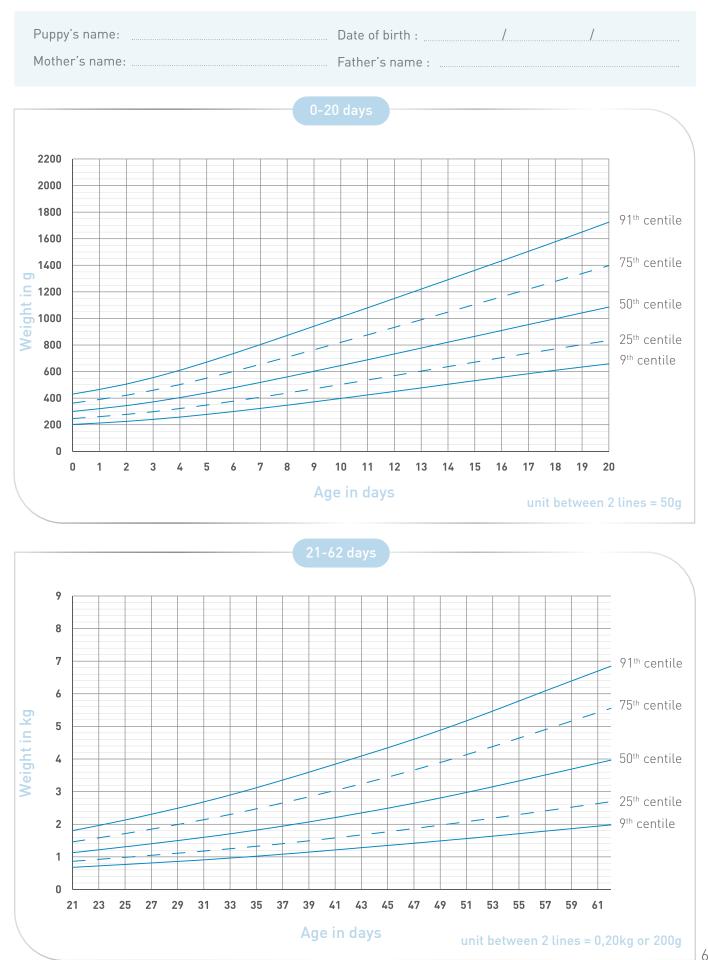






PUPPY EARLY GROWTH CHART FRENCH SPANIEL

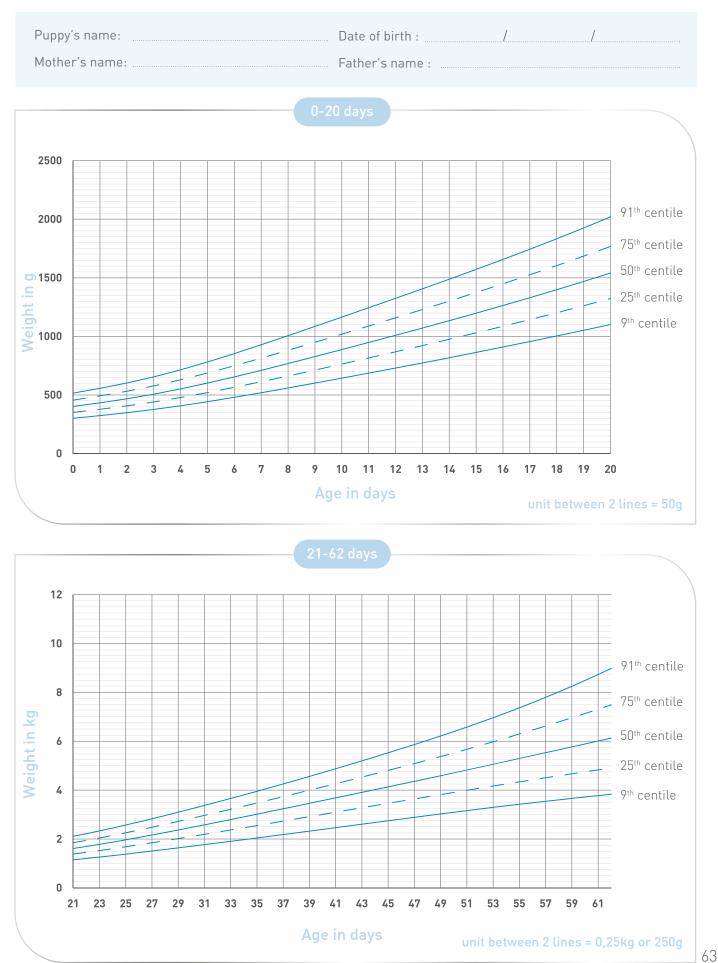






PUPPY EARLY GROWTH CHART GERMAN SHEPHERD

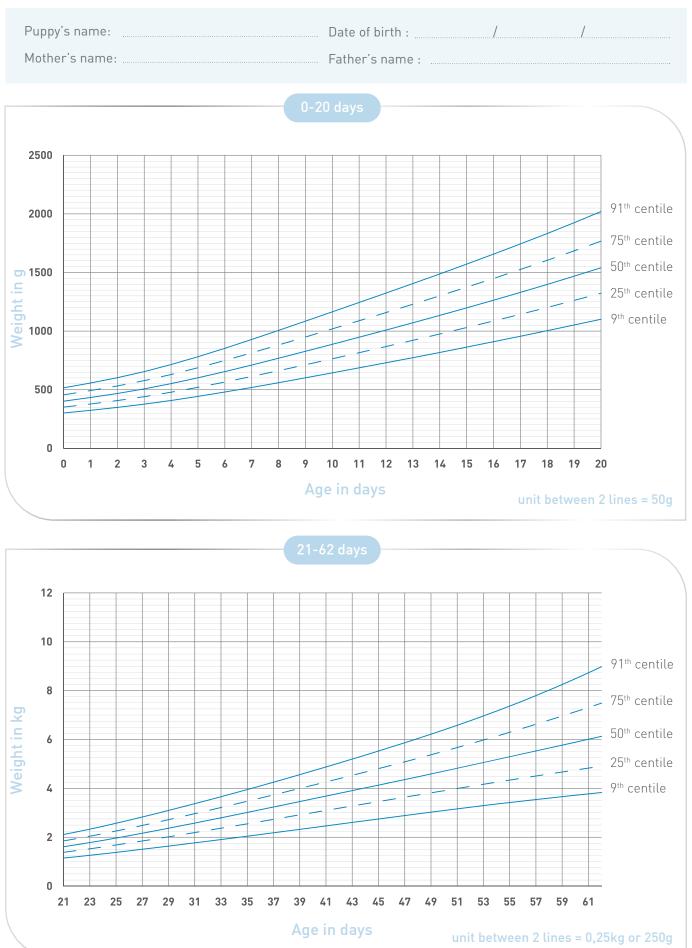






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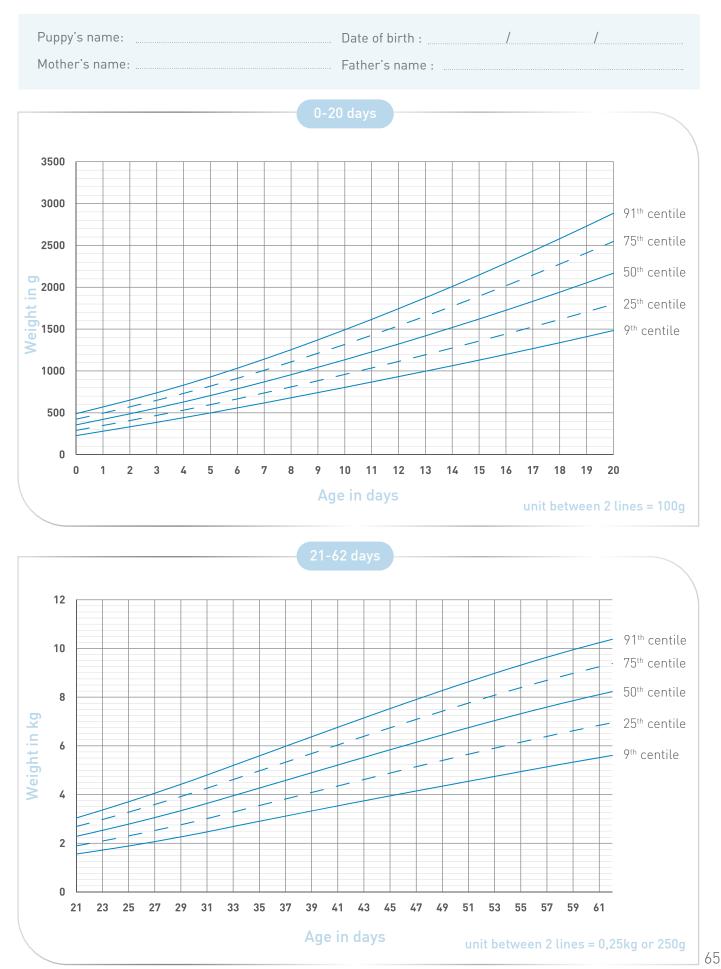






PUPPY EARLY GROWTH CHART GIANT SCHNAUZER

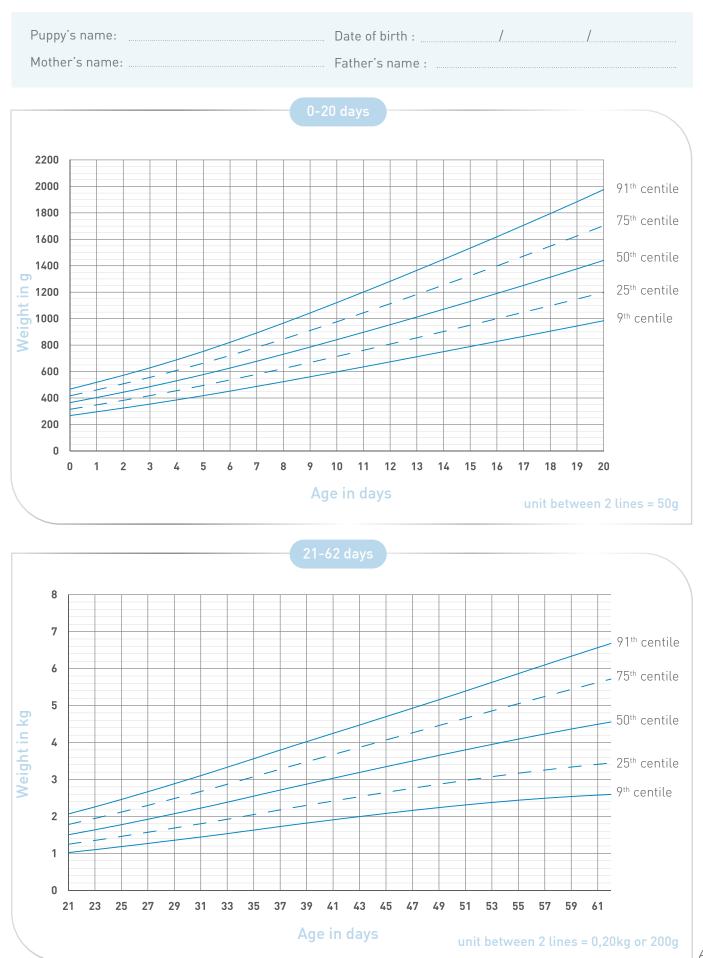






PUPPY EARLY GROWTH CHART GOLDEN RETRIEVER

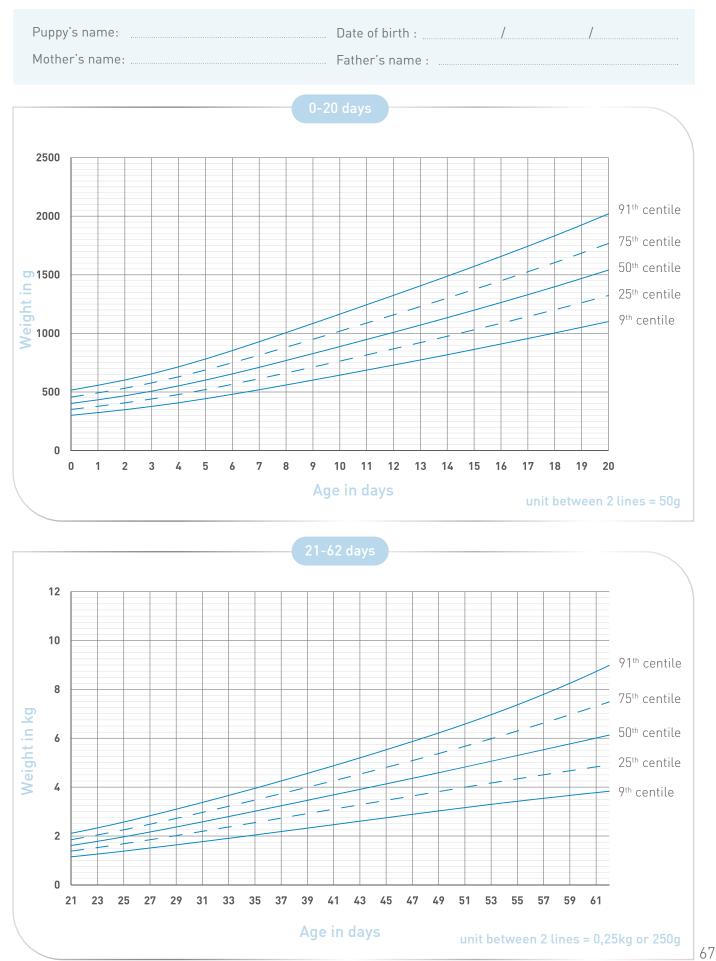






PUPPY EARLY GROWTH CHART GORDON SETTER







21 23

25 27 29 31 33 35

37

39

Age in days

41 43 45 47 49

51 53 55

57 59

unit between 2 lines = 0,25kg or 250g

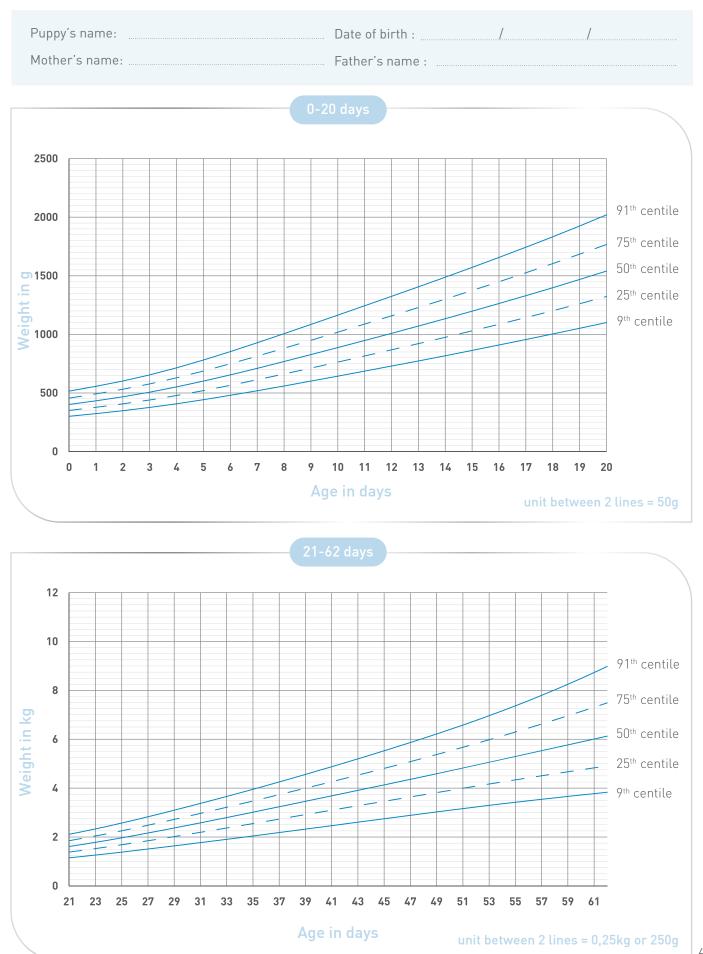
61

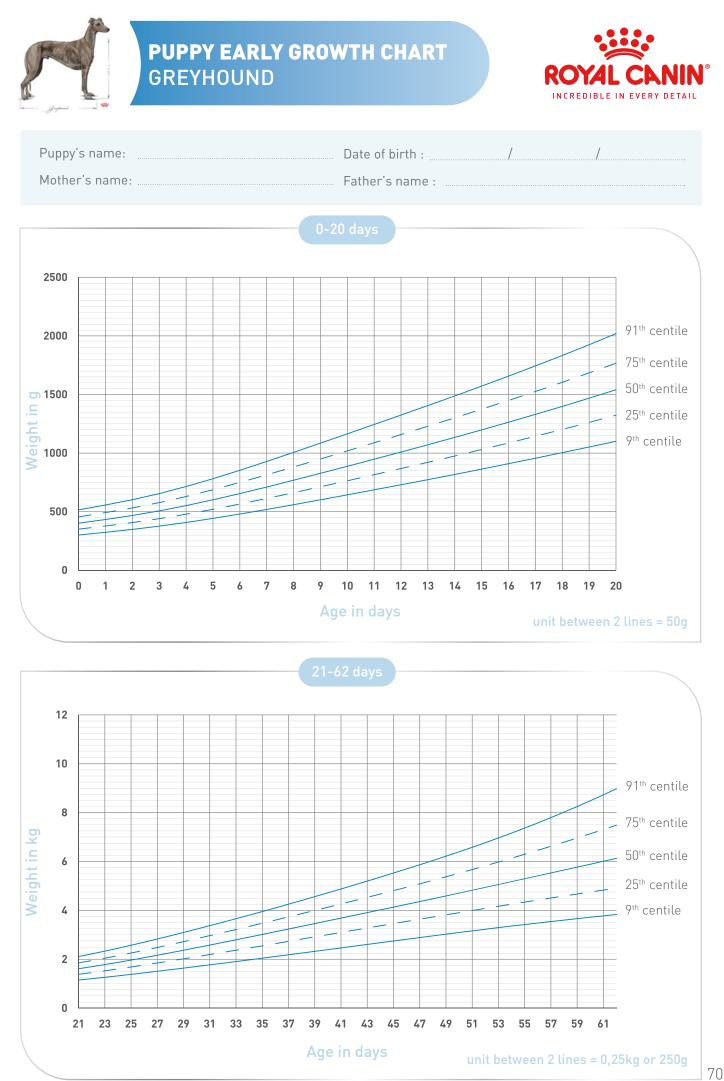
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PUPPY EARLY GROWTH CHART GREAT SWISS MOUNTAIN DOG



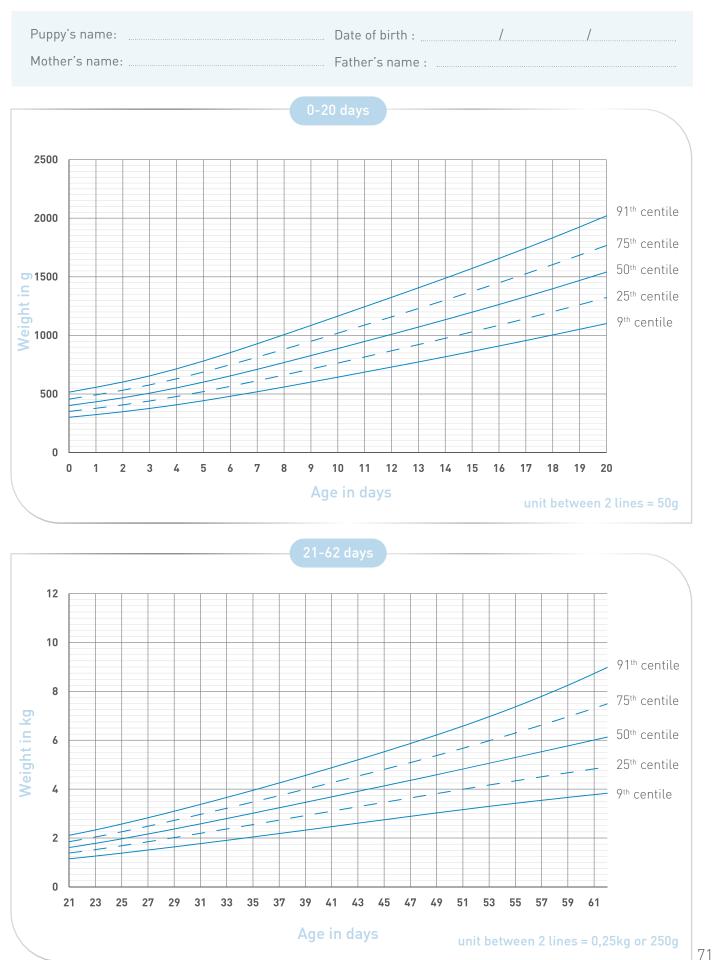






PUPPY EARLY GROWTH CHART HUNGARIAN WIRE HAIRED POINTER

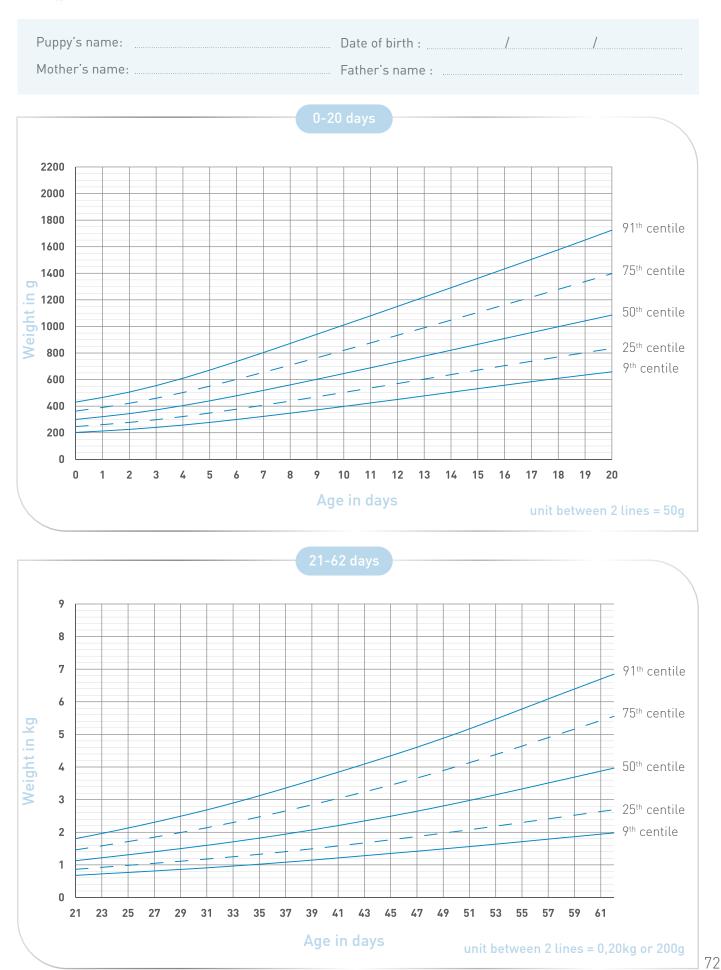




Charles All shifts and

PUPPY EARLY GROWTH CHART IRISH RED SETTER

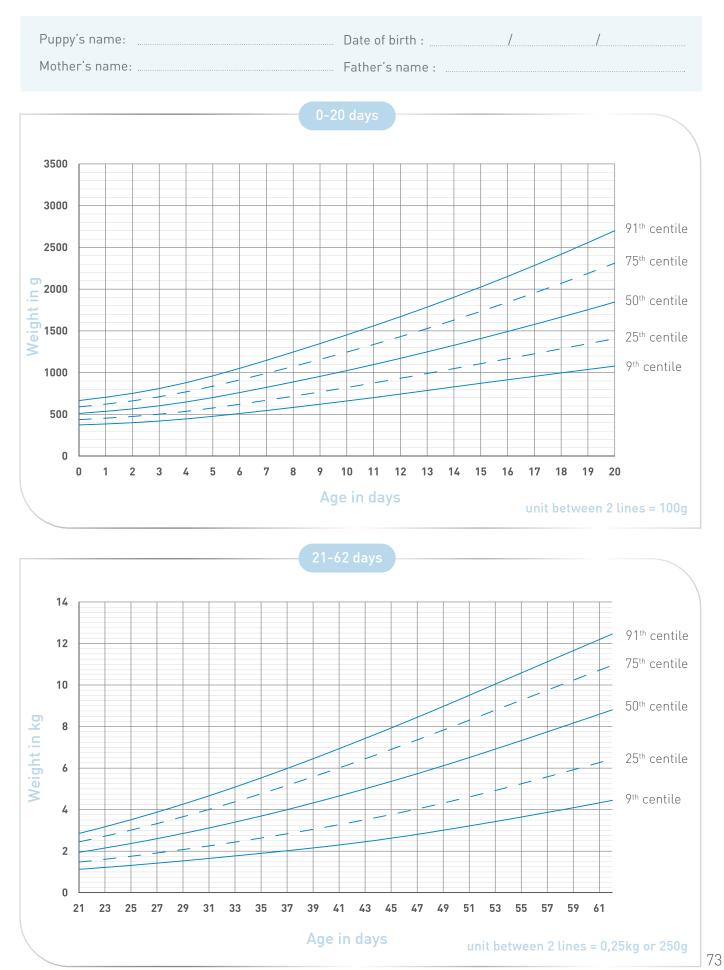






PUPPY EARLY GROWTH CHART IRISH WOLFHOUND

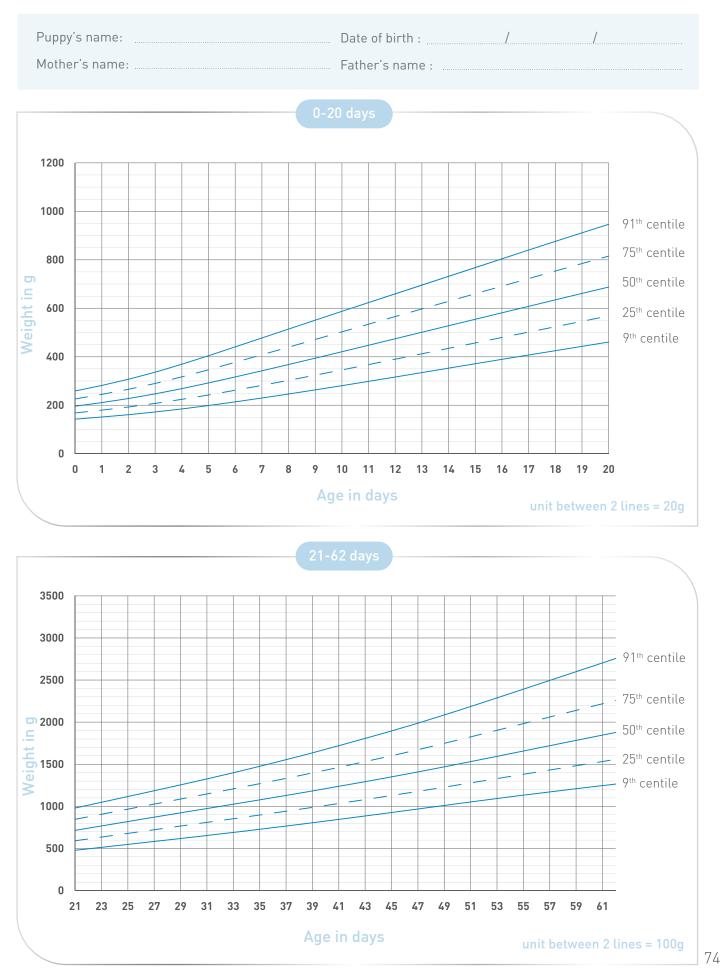






PUPPY EARLY GROWTH CHART ITALIAN GREYHOUND

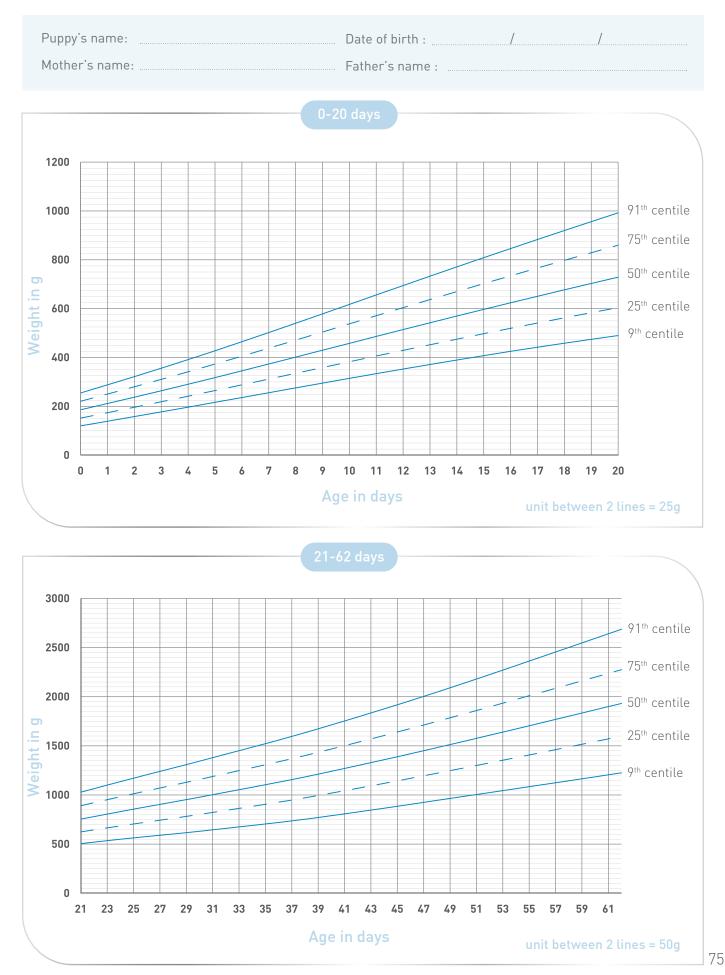






PUPPY EARLY GROWTH CHART JACK RUSSEL TERRIER

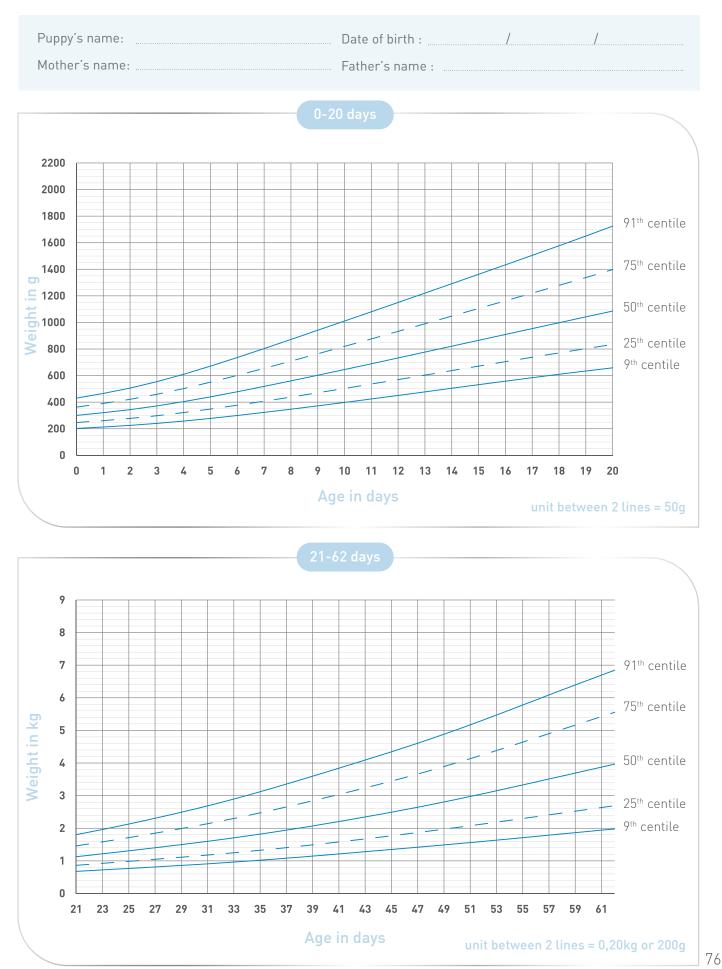






PUPPY EARLY GROWTH CHART KERRY BLUE TERRIER

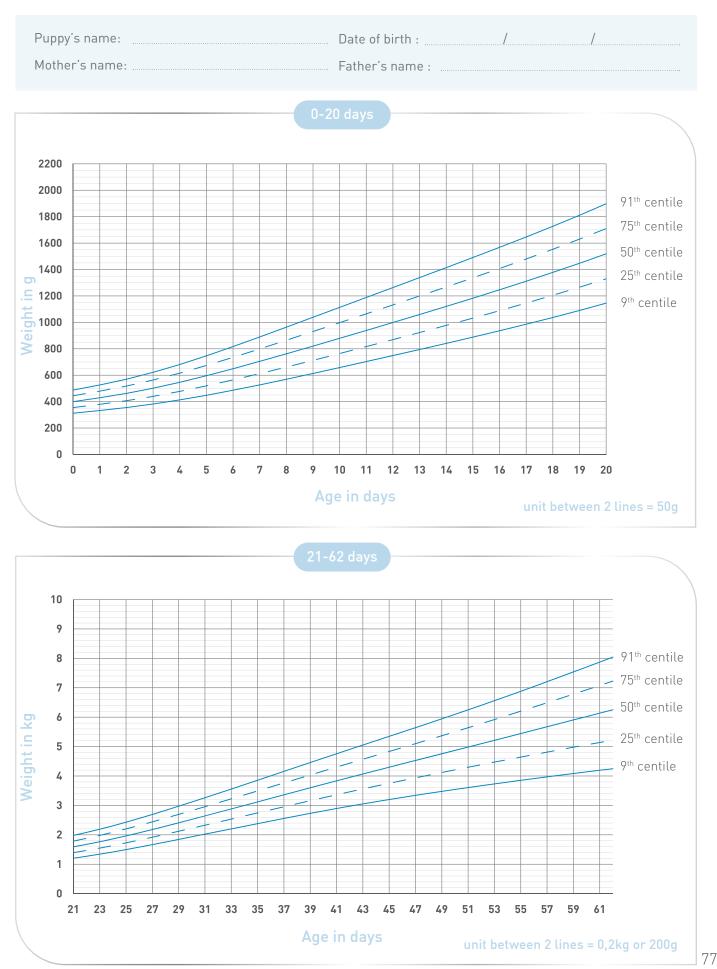






PUPPY EARLY GROWTH CHART LABRADOR RETRIEVER

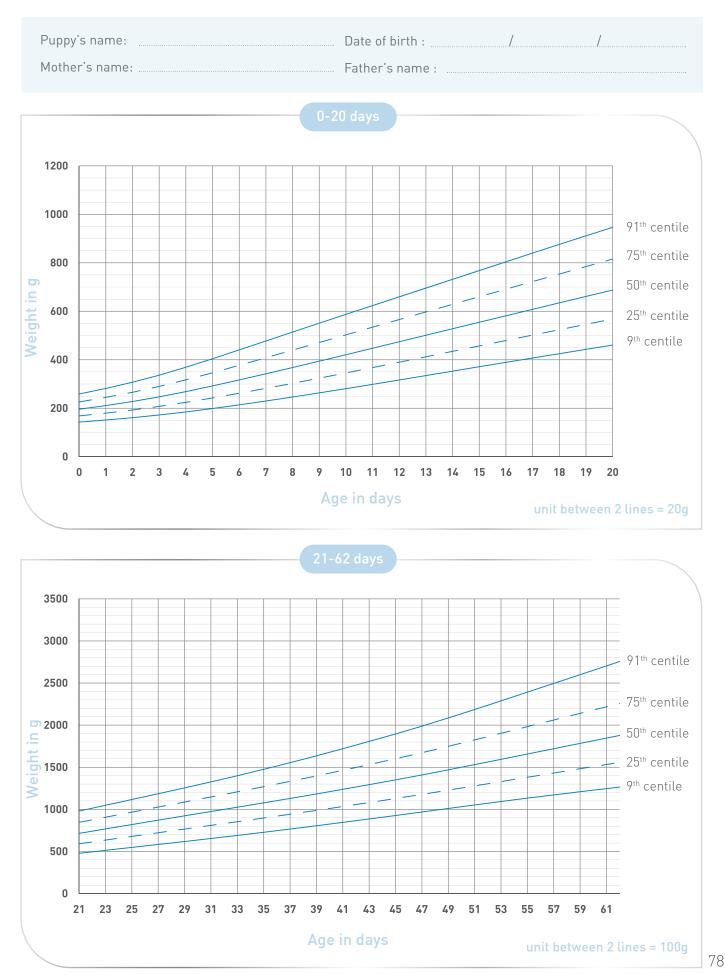






PUPPY EARLY GROWTH CHART LAKELAND TERRIER

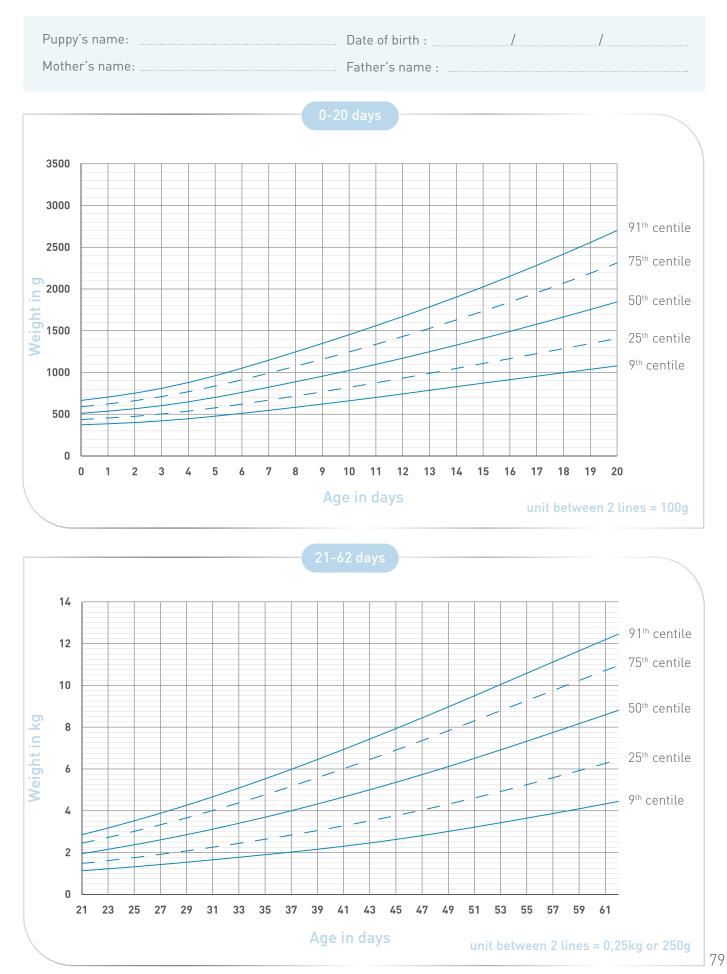






PUPPY EARLY GROWTH CHART LANDSEER EUROPEAN CONTINENTAL TYPE

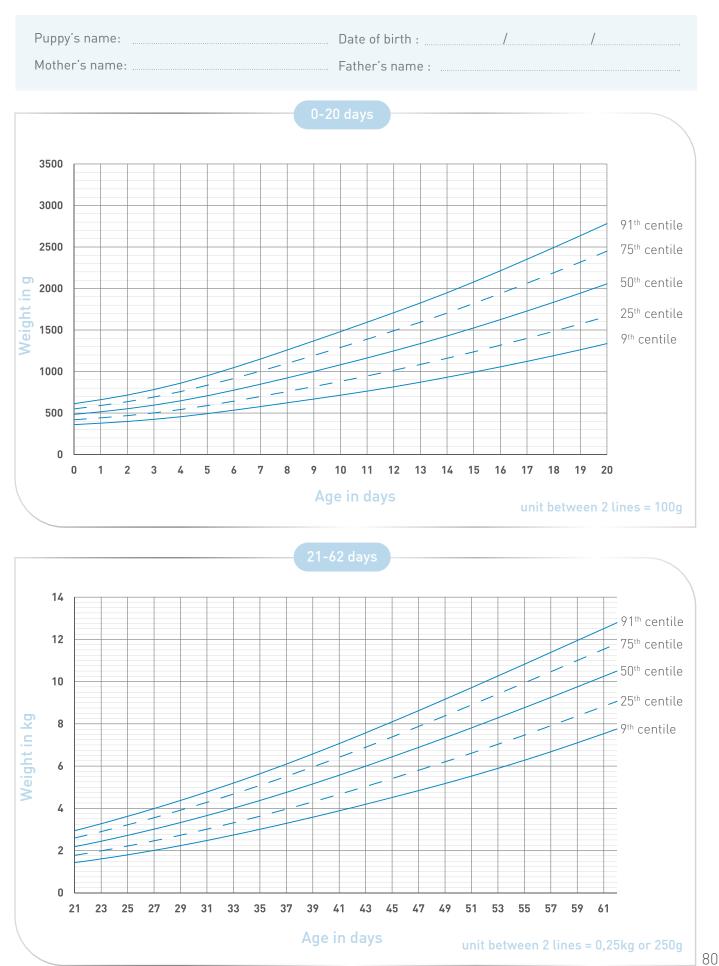






PUPPY EARLY GROWTH CHART LEONBERGER

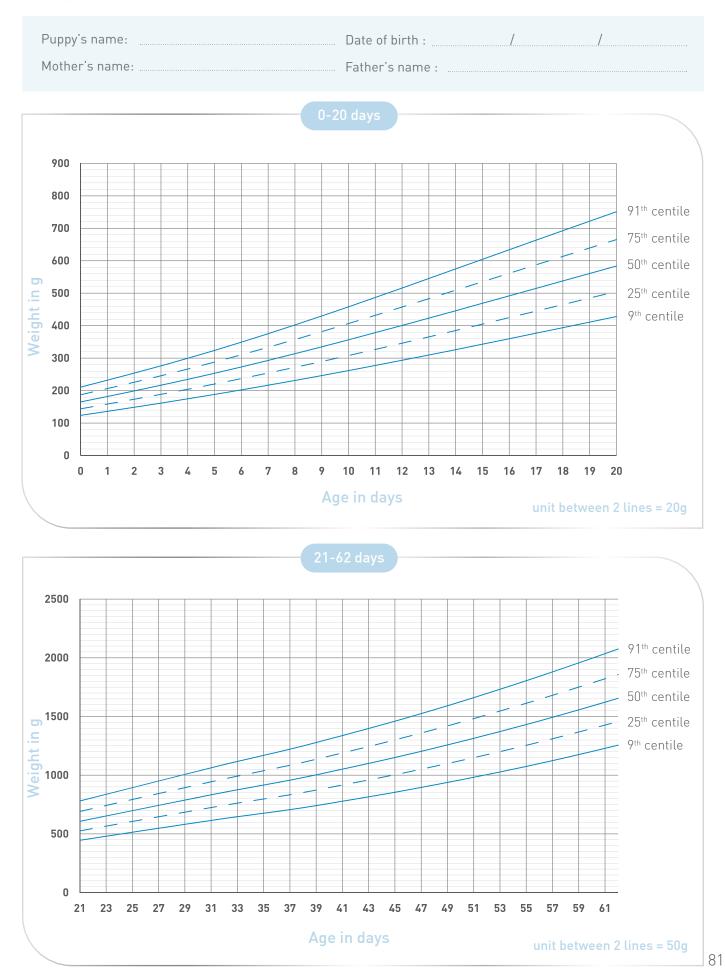






PUPPY EARLY GROWTH CHART LHASSA APSO

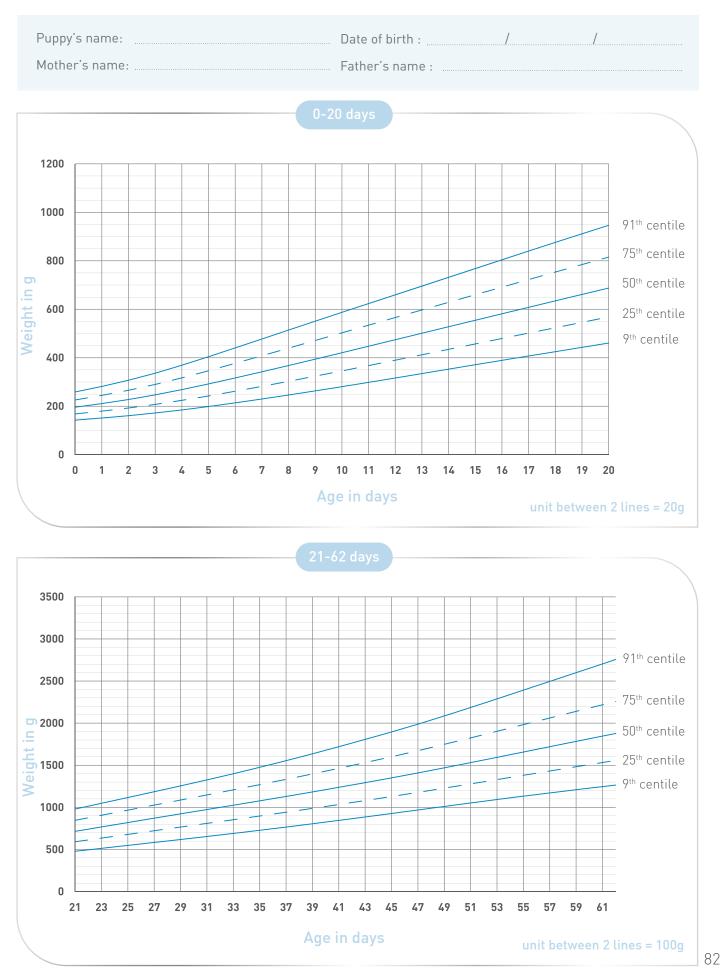






PUPPY EARLY GROWTH CHART LITTLE LION DOG / LOWCHEN

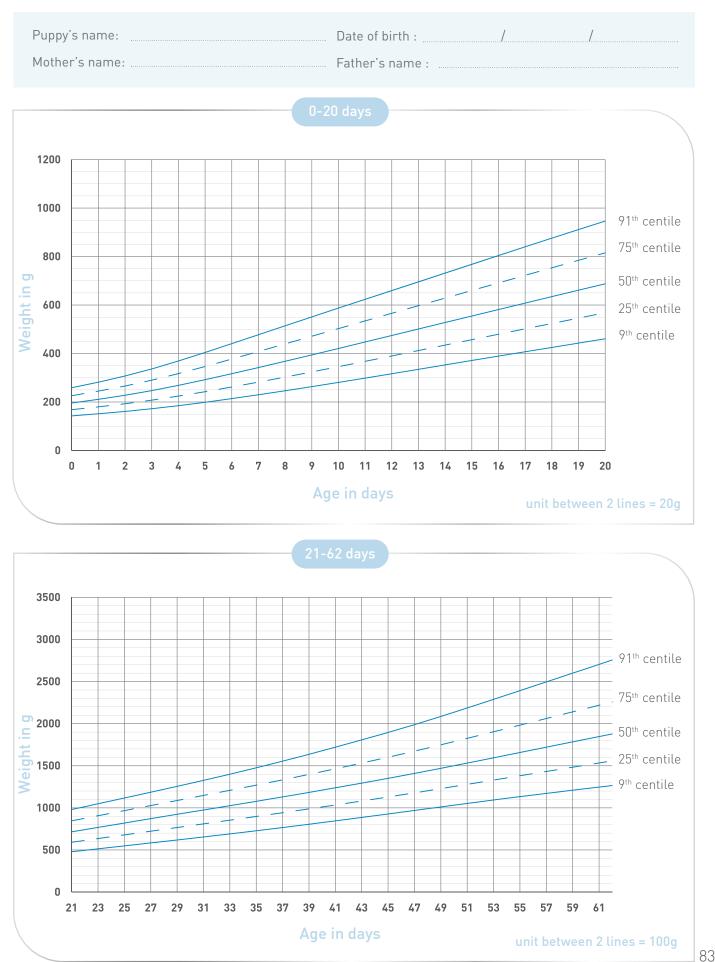






PUPPY EARLY GROWTH CHART LONG HAIRED PYRENEAN SHEEPDOG

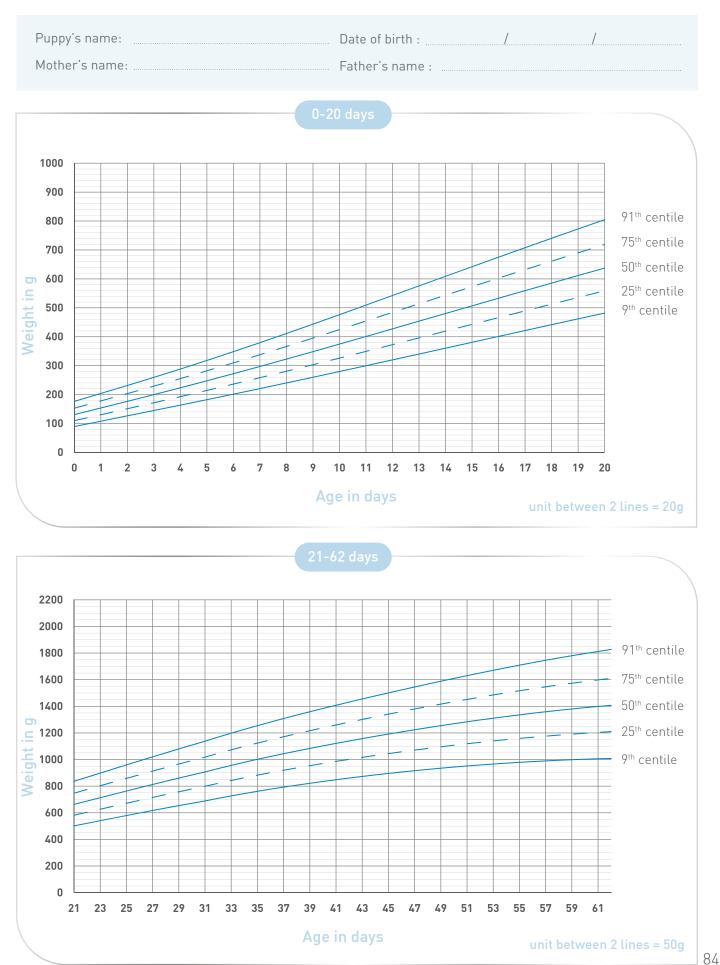




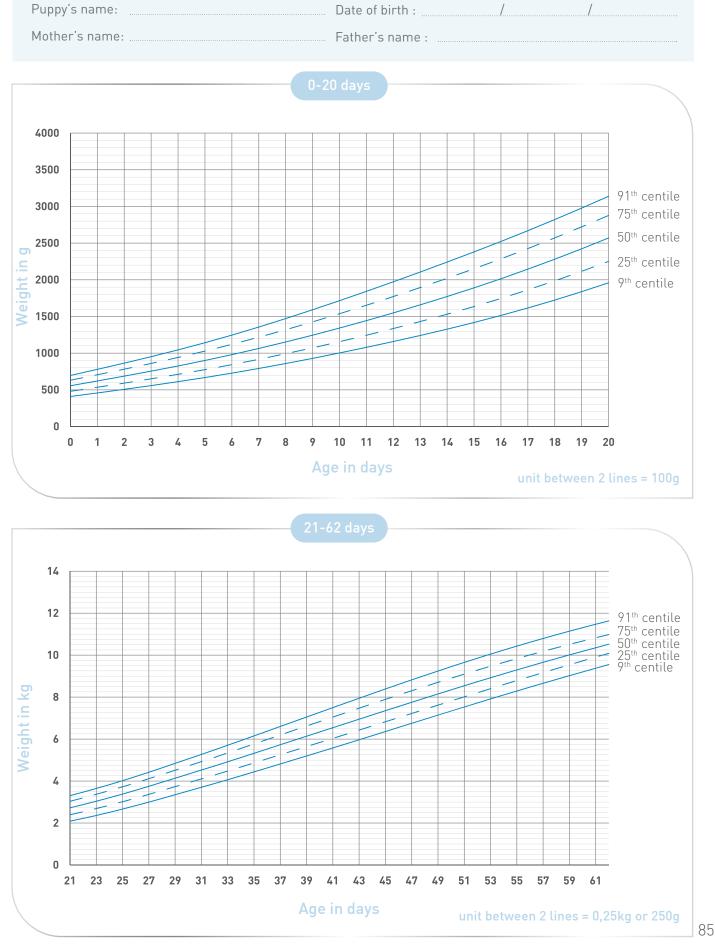


PUPPY EARLY GROWTH CHART MALTESE





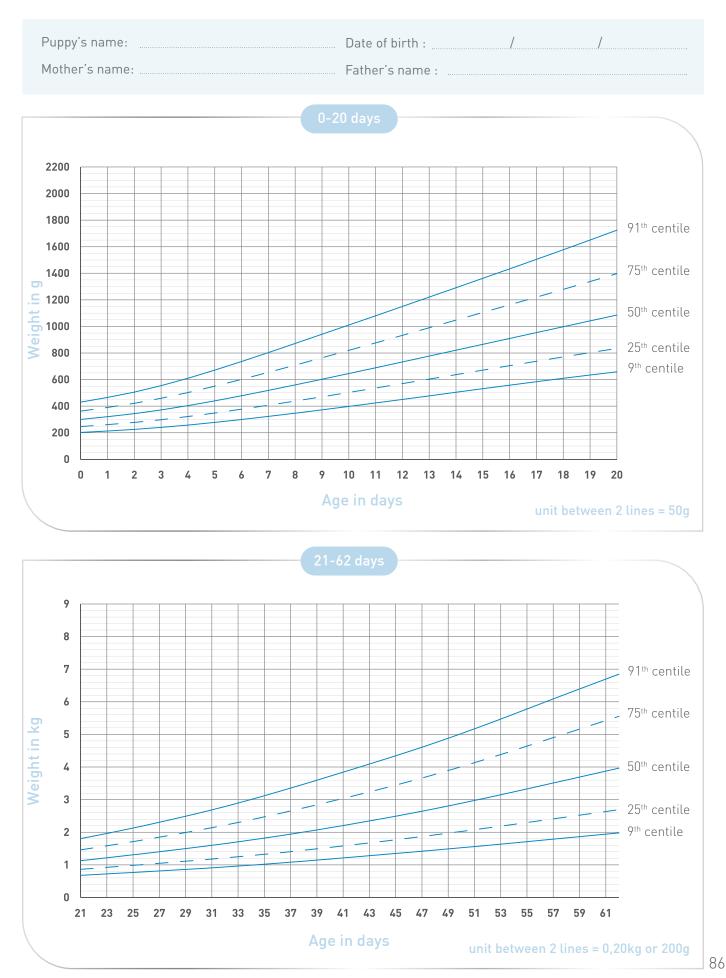






PUPPY EARLY GROWTH CHART MEDIUM POODLE

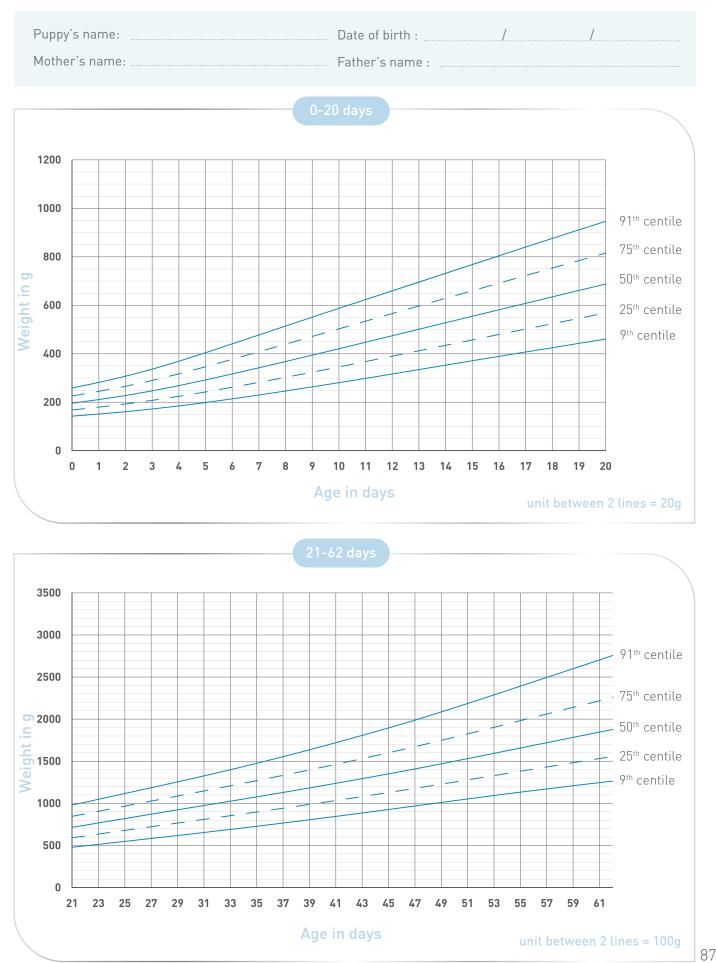






PUPPY EARLY GROWTH CHART MINIATURE PINSCHER

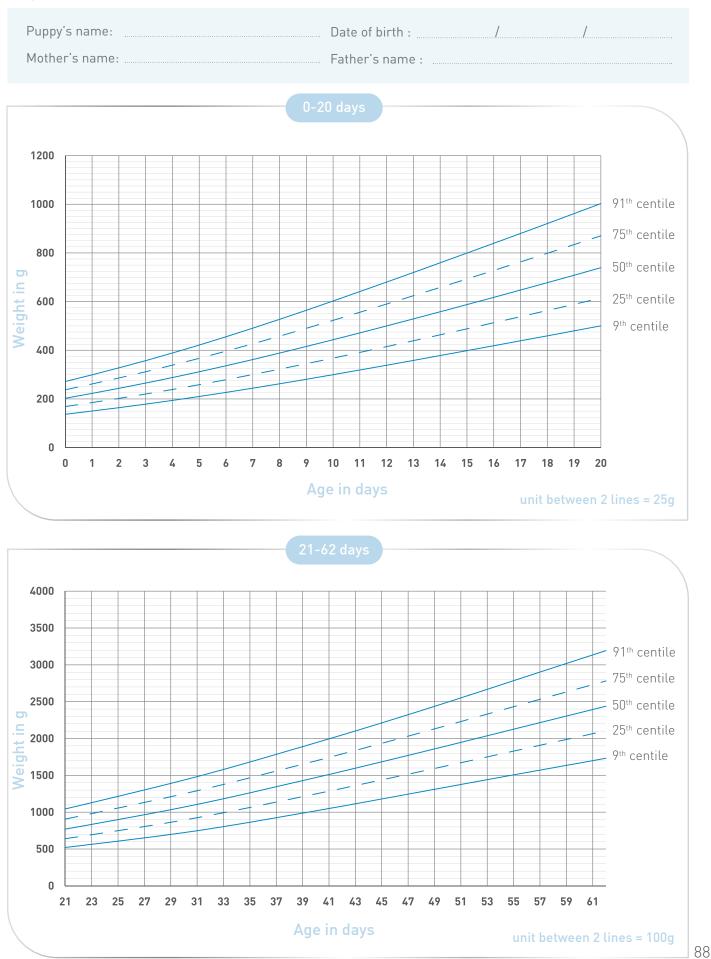






PUPPY EARLY GROWTH CHART MINIATURE SCHNAUZER

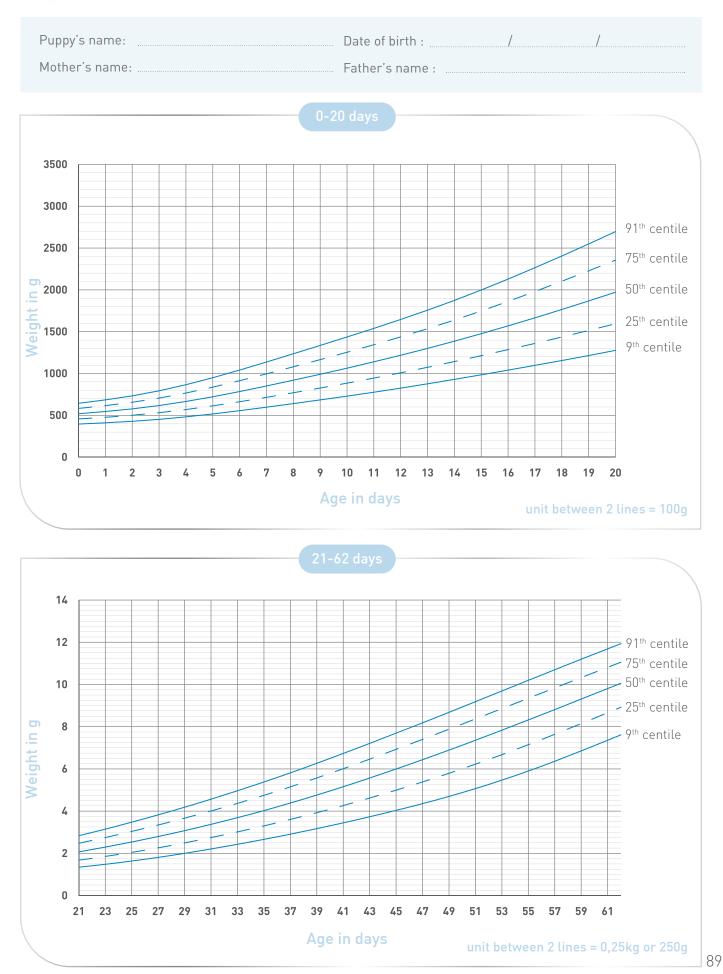






PUPPY EARLY GROWTH CHART NEWFOUNDLAND

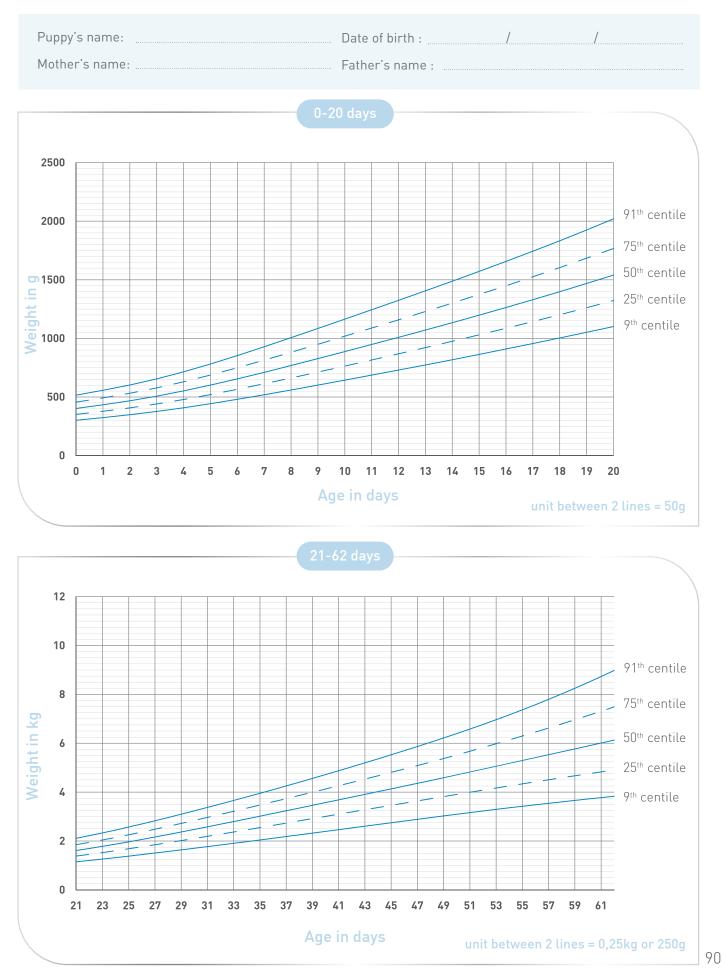






PUPPY EARLY GROWTH CHART OLD ENGLISH SHEEPDOG

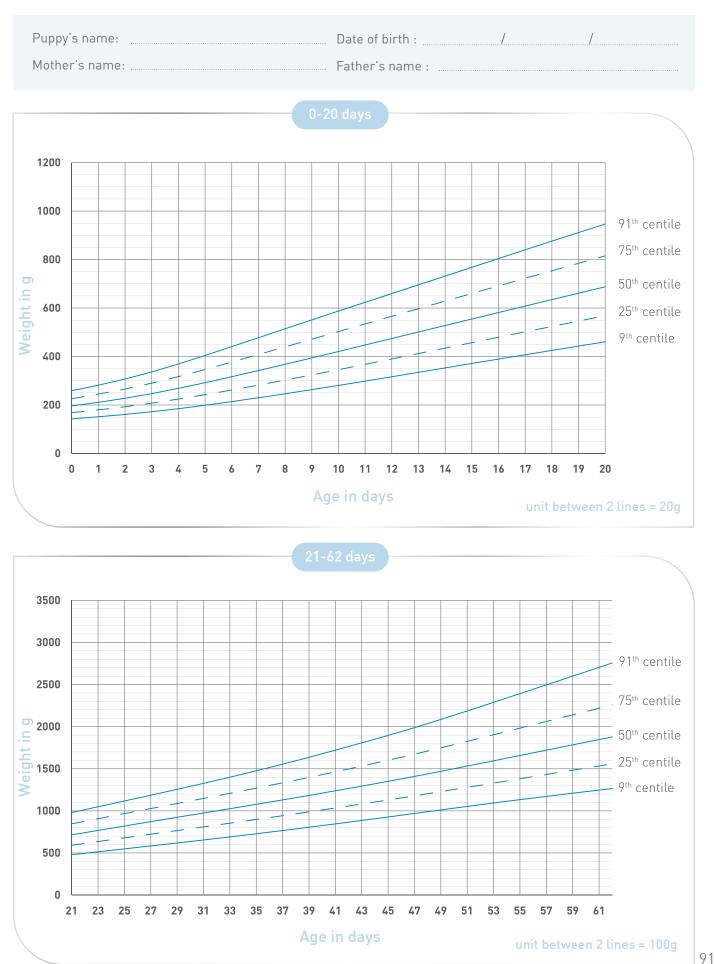






PUPPY EARLY GROWTH CHART PARSON RUSSELL TERRIER

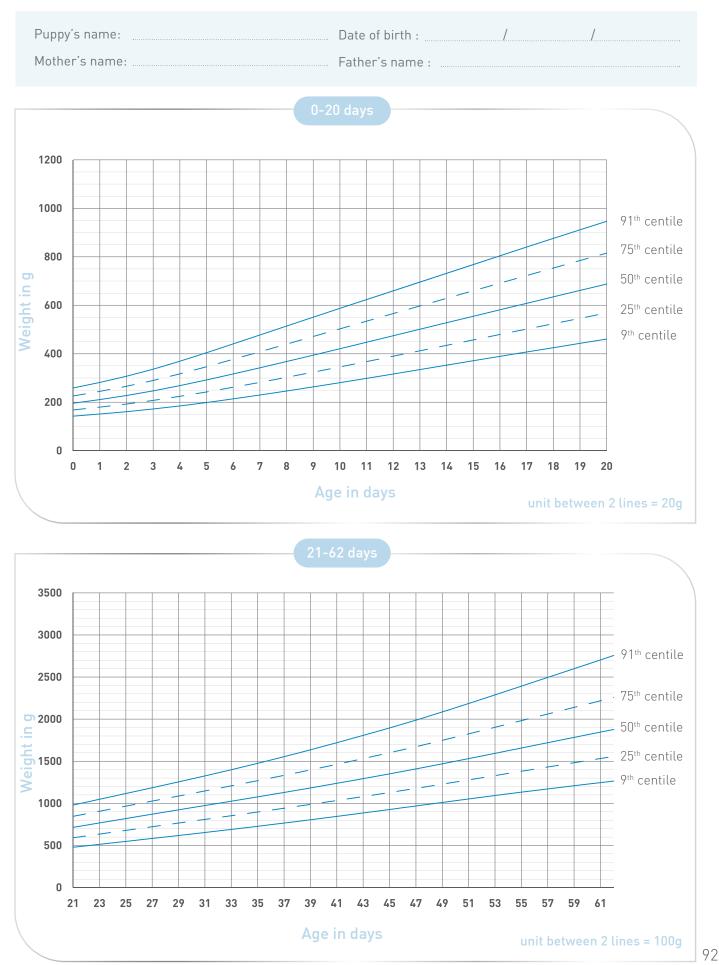






PUPPY EARLY GROWTH CHART PEKINGESE

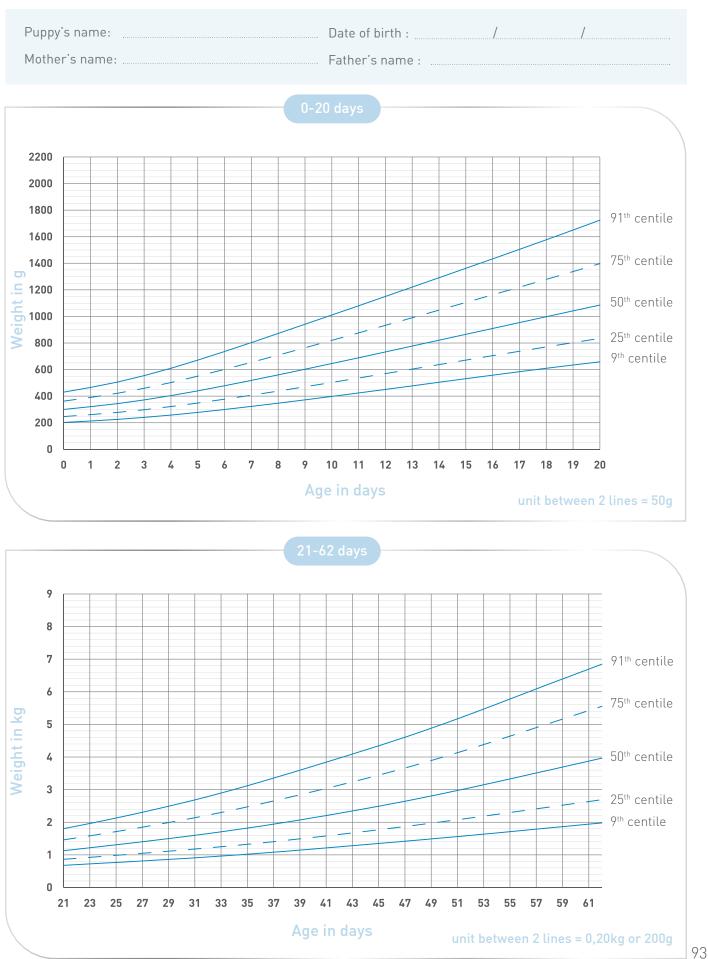






PUPPY EARLY GROWTH CHART PETIT BASSET GRIFFON VENDEEN

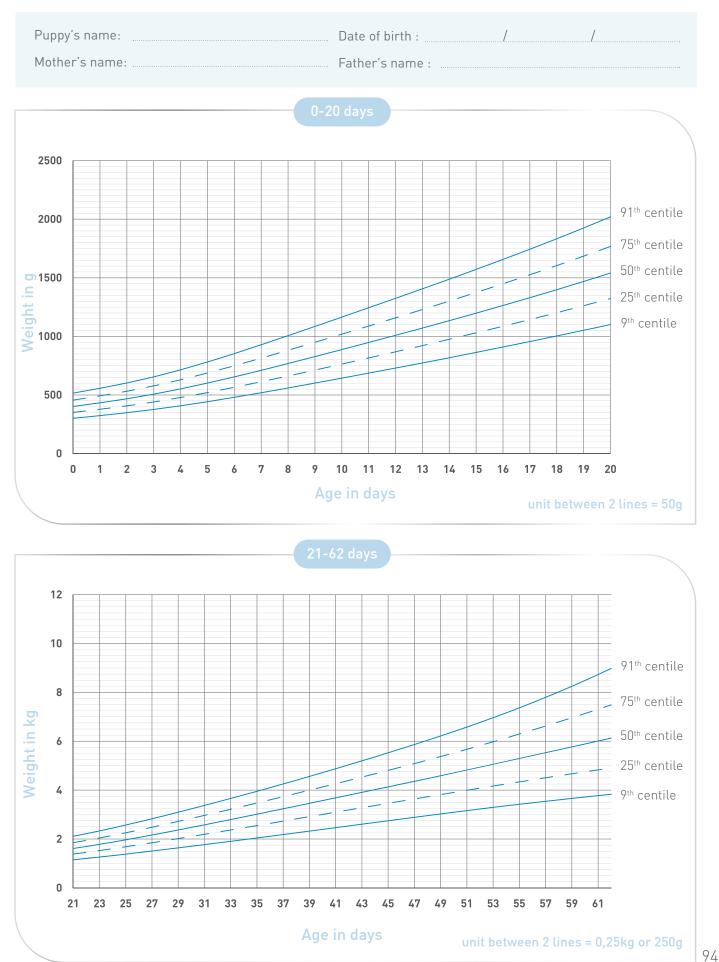






PUPPY EARLY GROWTH CHART PICARDY SHEPHERD

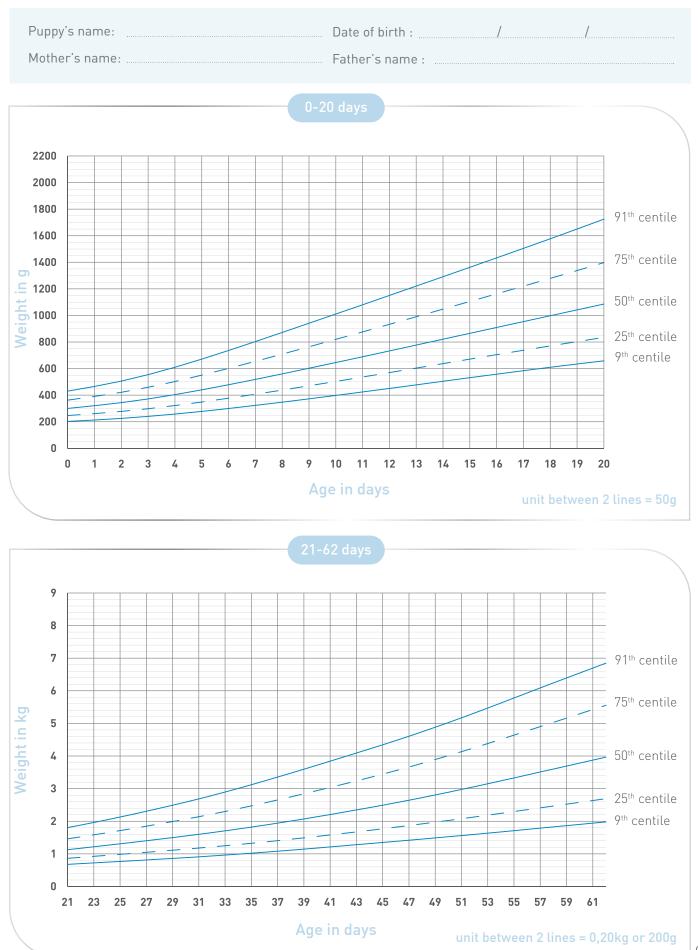






PUPPY EARLY GROWTH CHART POLISH LOWLAND SHEEPDOG

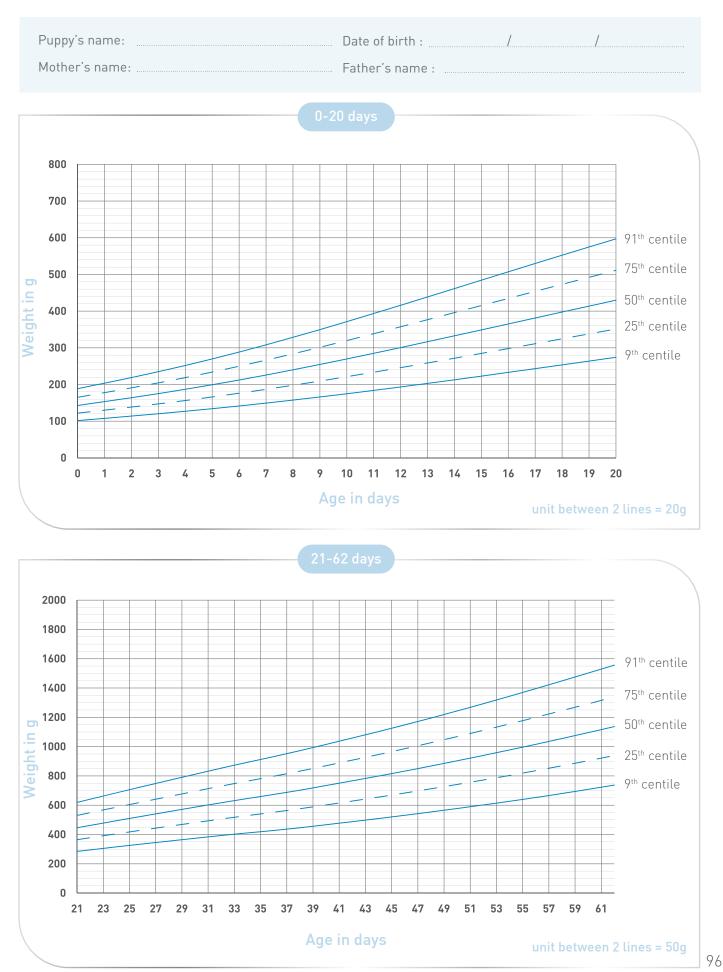






PUPPY EARLY GROWTH CHART POMERANIAN

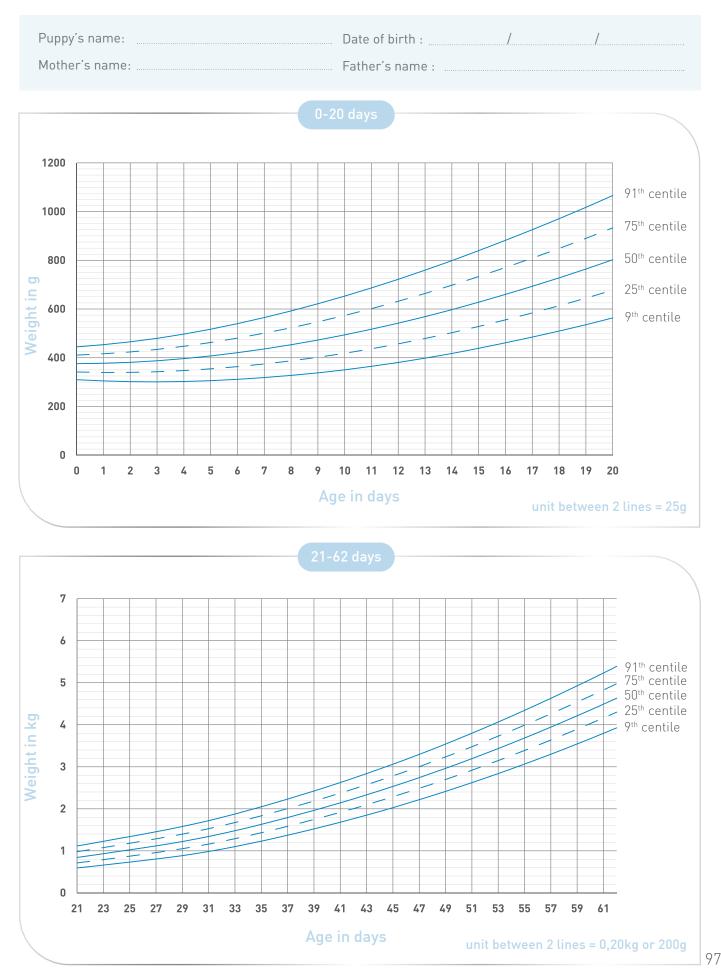




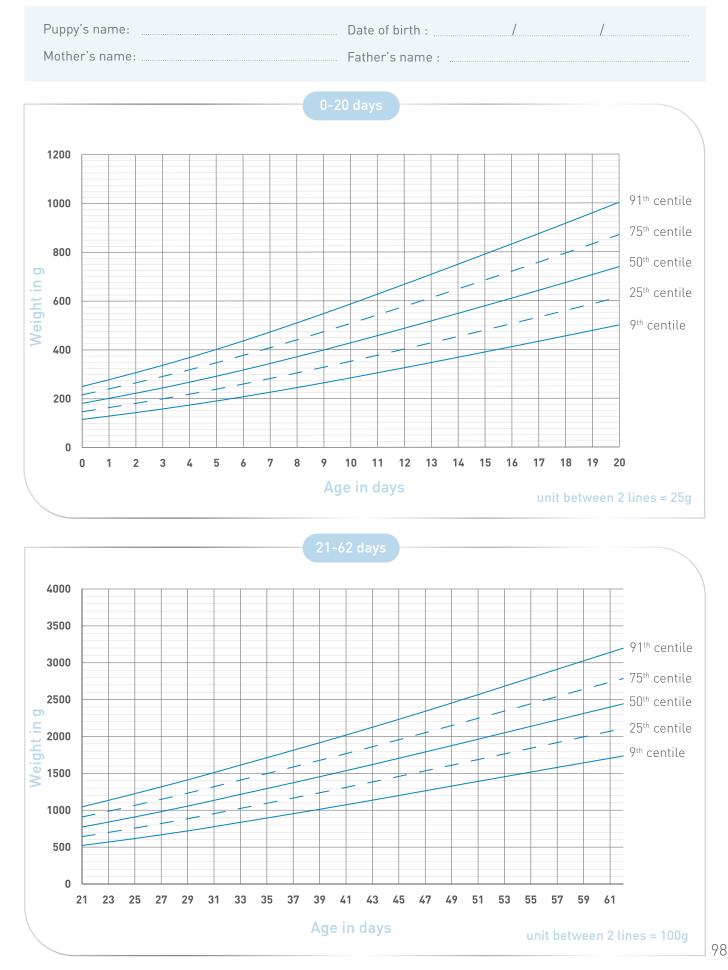


PUPPY EARLY GROWTH CHART POODLE ROYAL





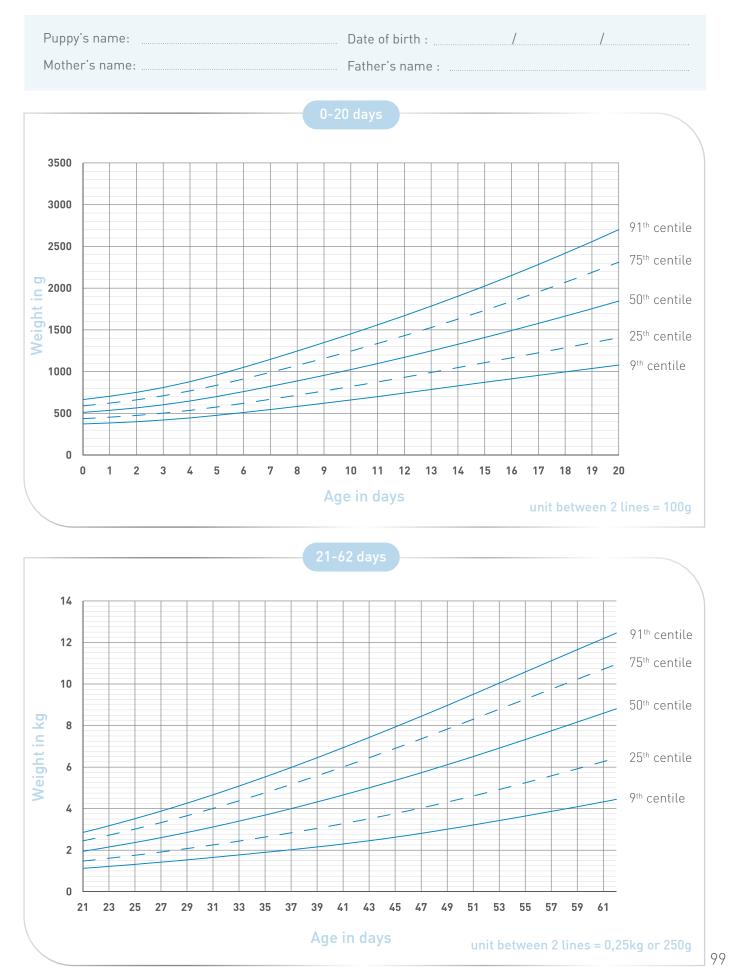






PUPPY EARLY GROWTH CHART ROTTWEILER

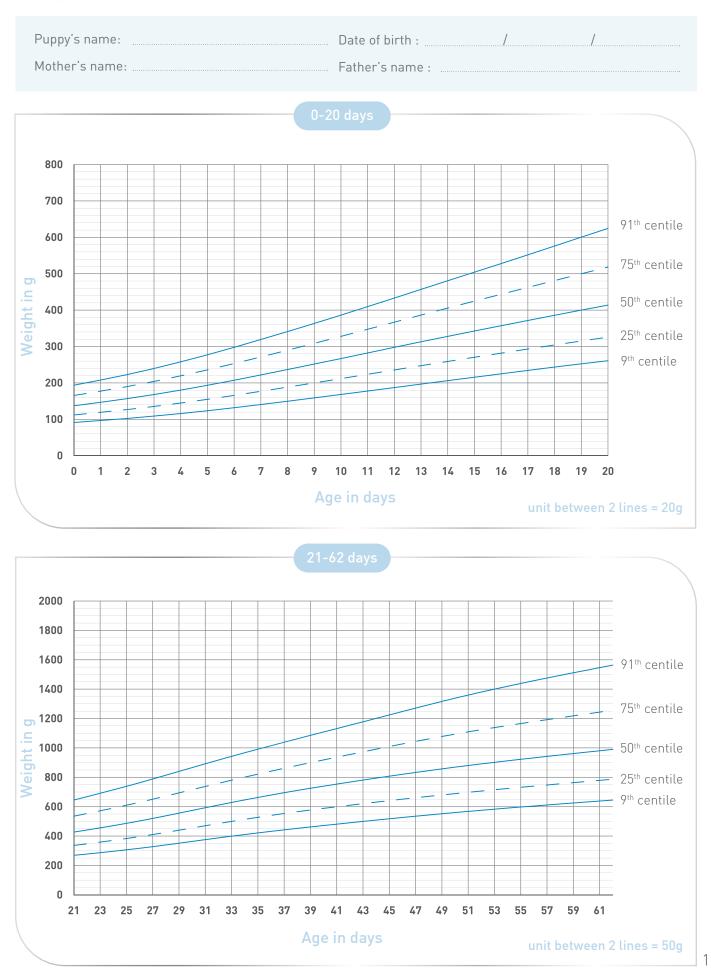






PUPPY EARLY GROWTH CHART RUSSIAN TOY

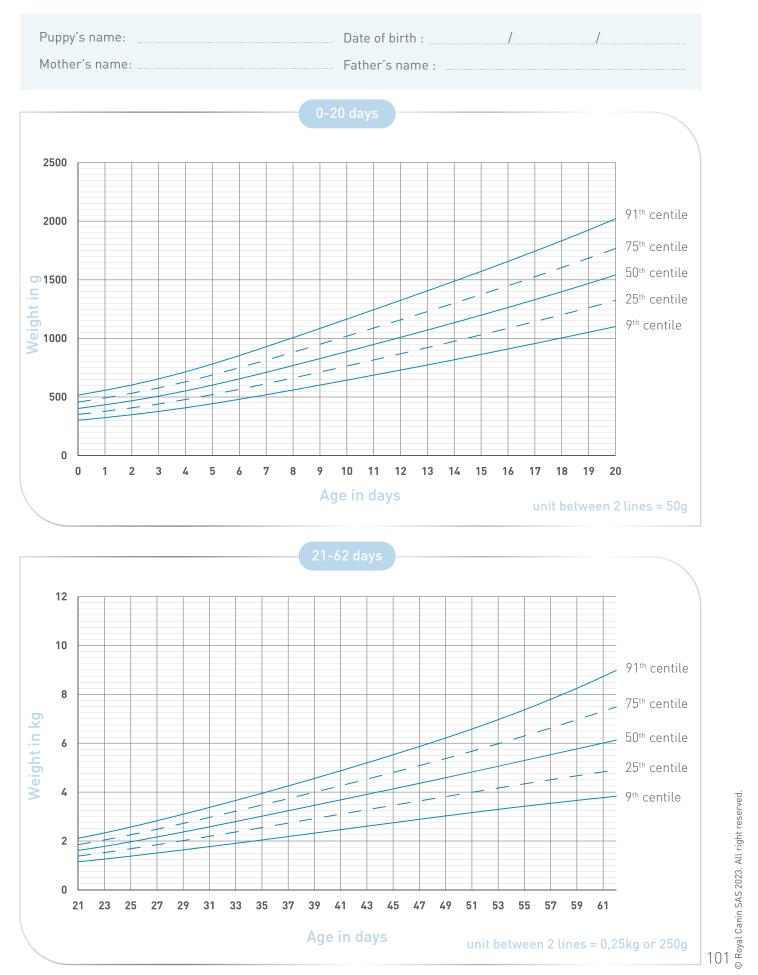






PUPPY EARLY GROWTH CHART SAARLOOS WOLFHOND

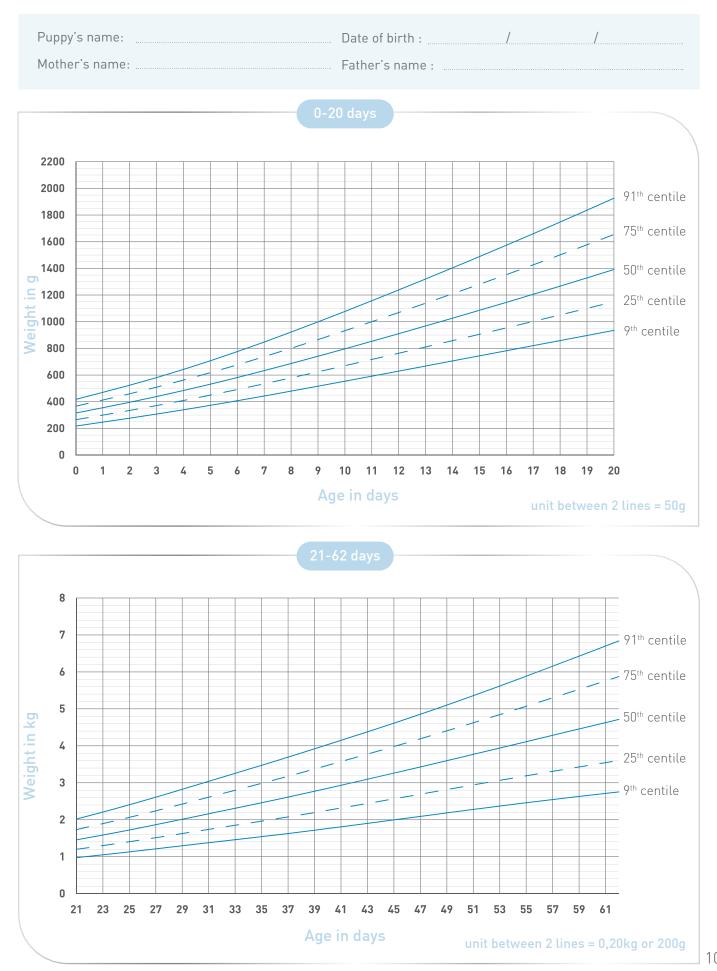






PUPPY EARLY GROWTH CHART SAMOYED

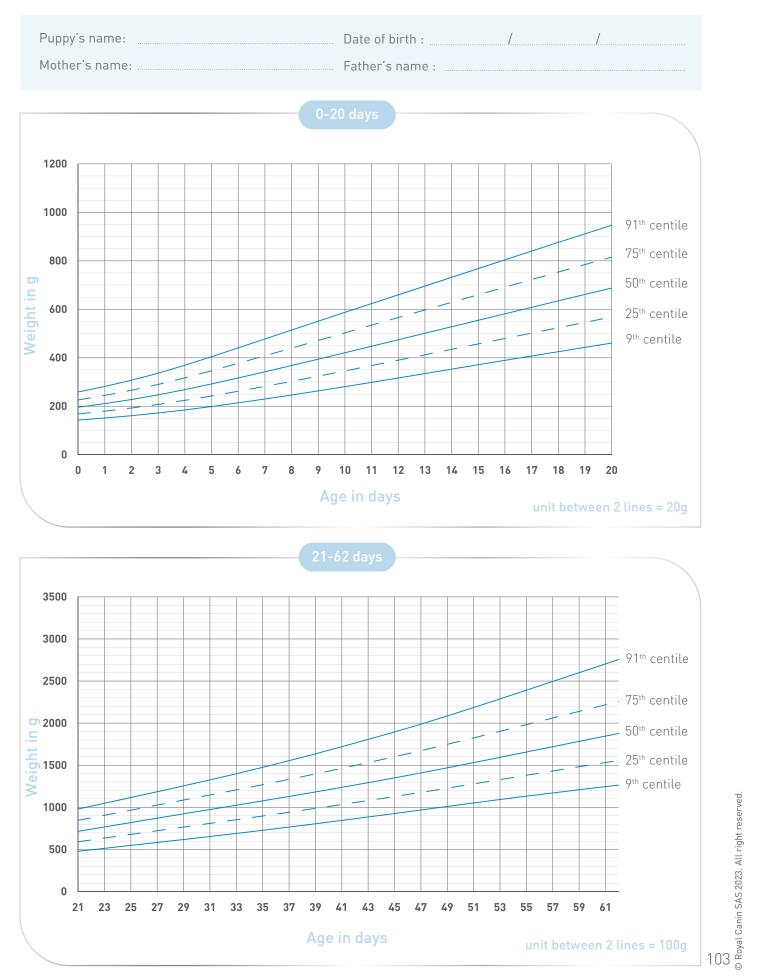






PUPPY EARLY GROWTH CHART SCHIPPERKE

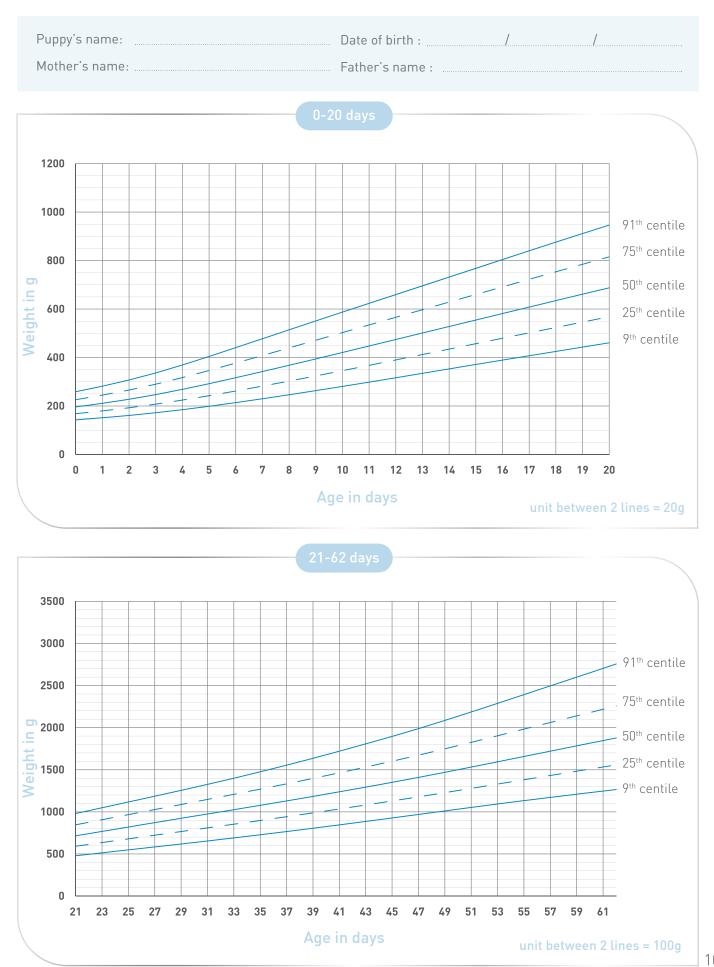






PUPPY EARLY GROWTH CHART SCOTTISH TERRIER

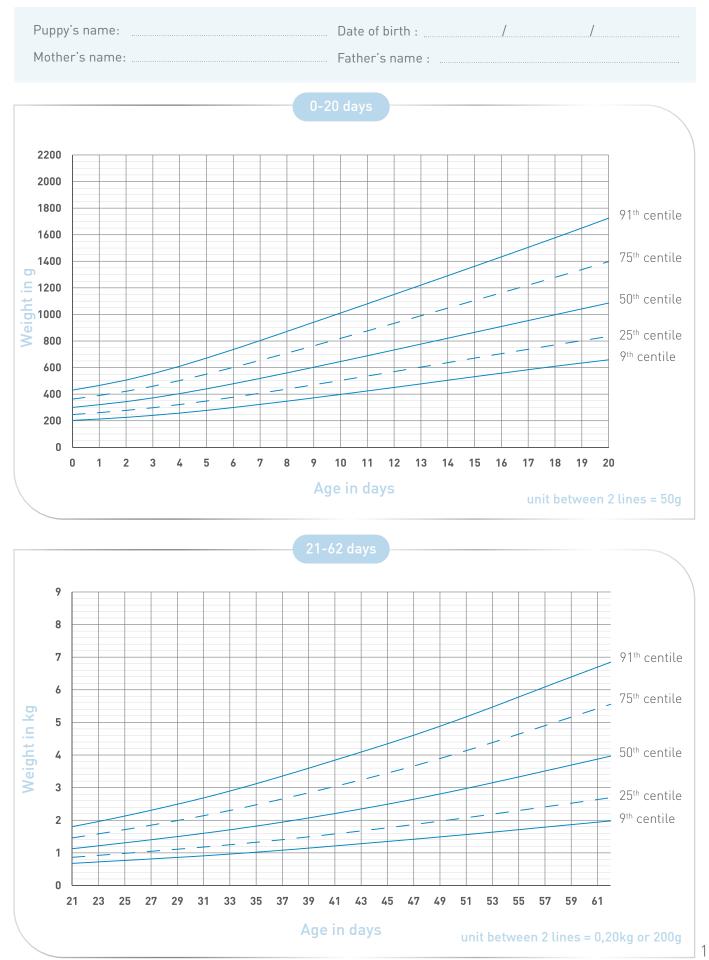




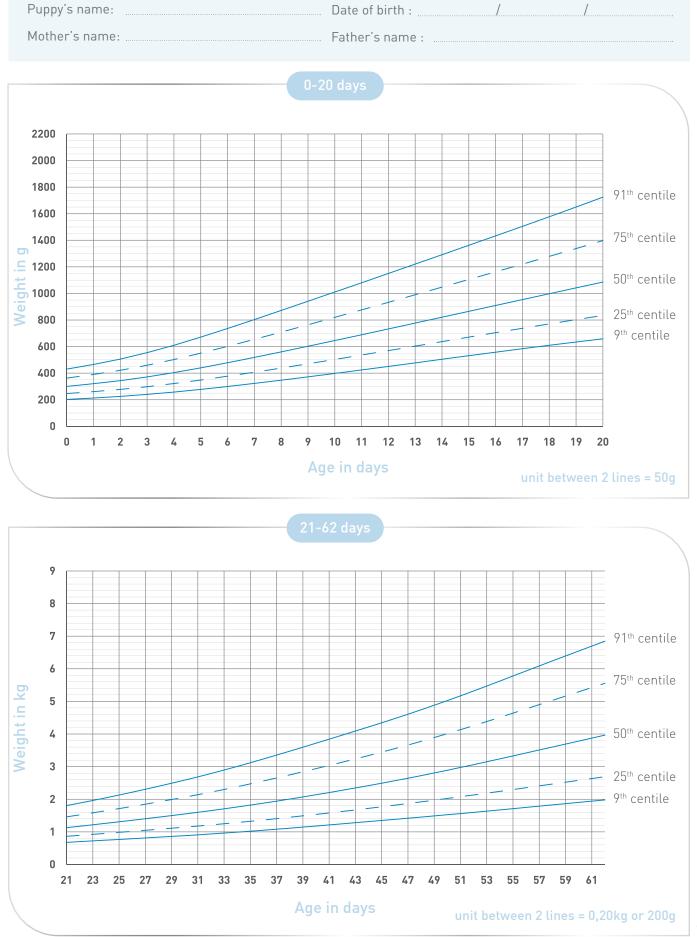


PUPPY EARLY GROWTH CHART SCHNAUZER





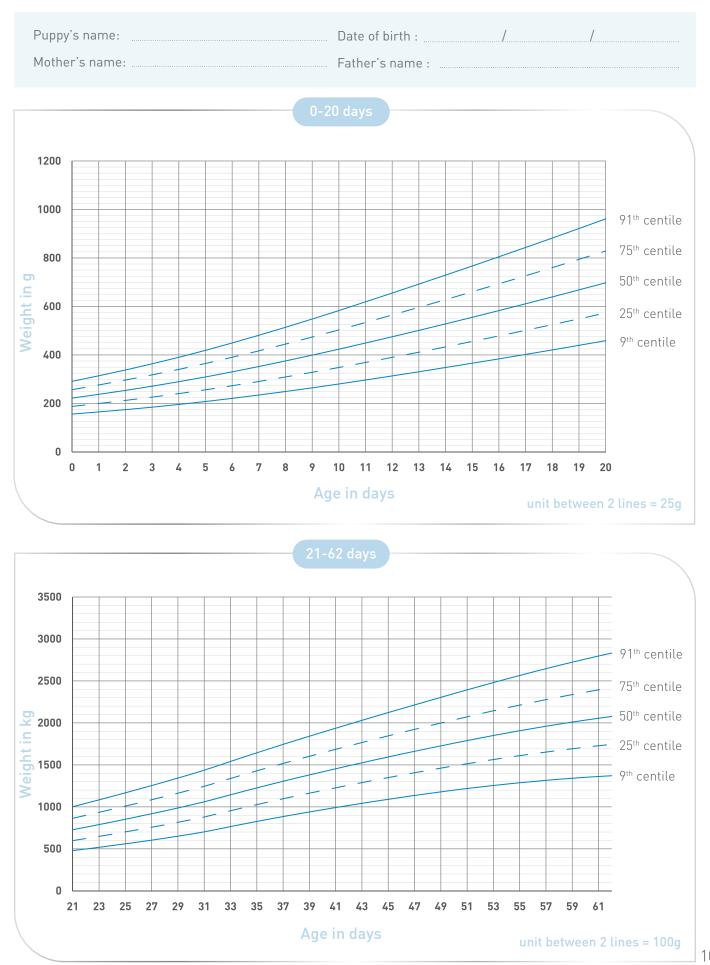






PUPPY EARLY GROWTH CHART SHETLAND SHEEPDOG

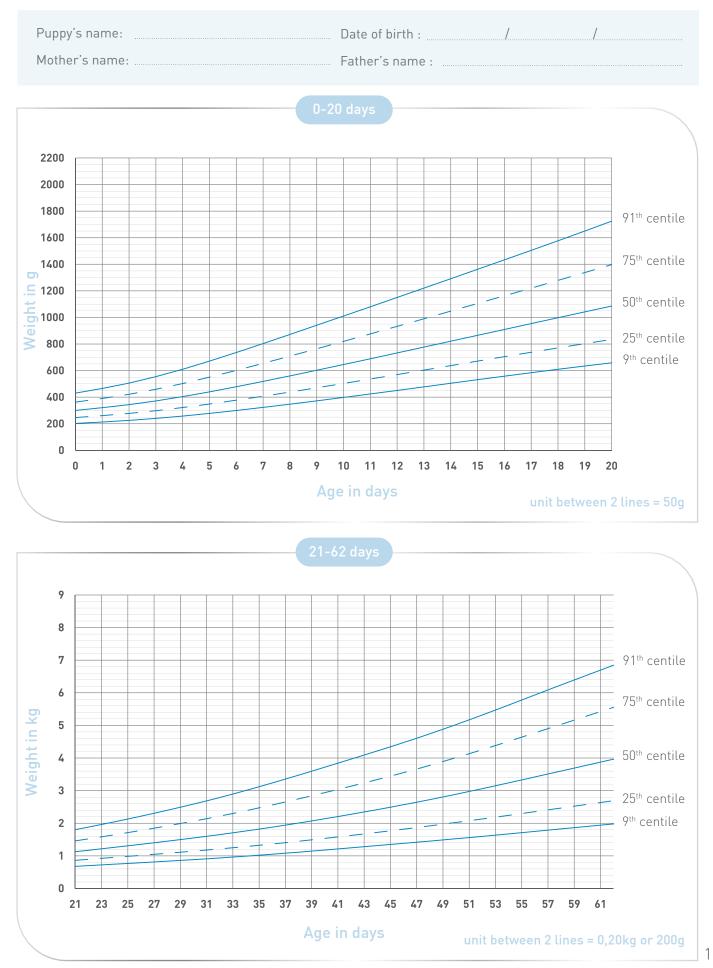






PUPPY EARLY GROWTH CHART Shiba

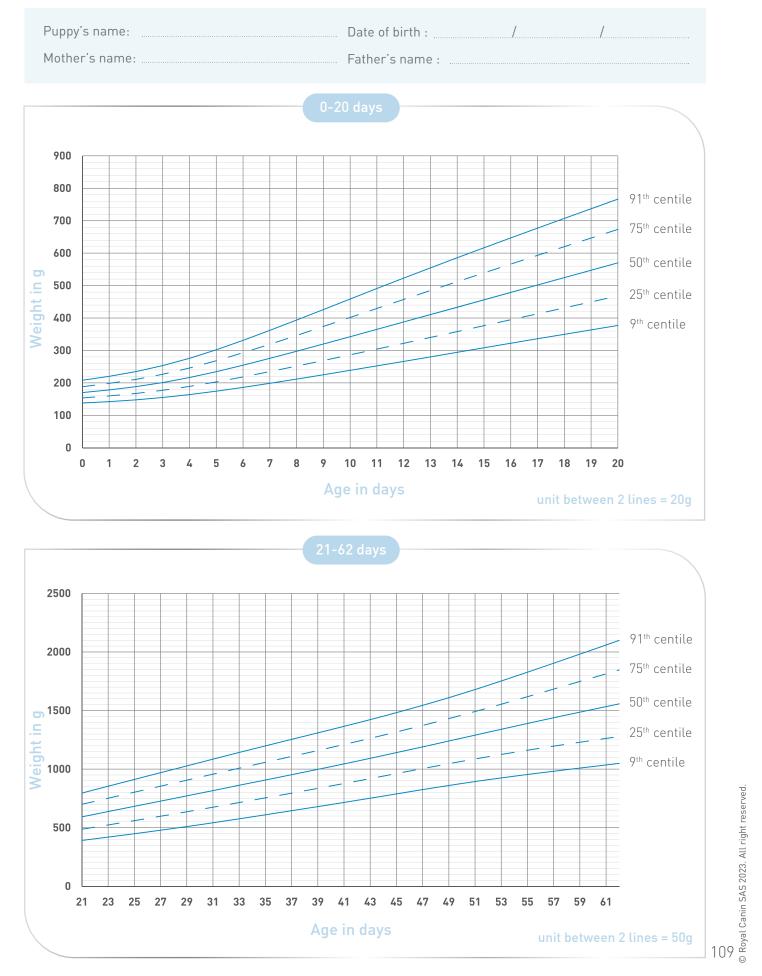






PUPPY EARLY GROWTH CHART SHIH TZU

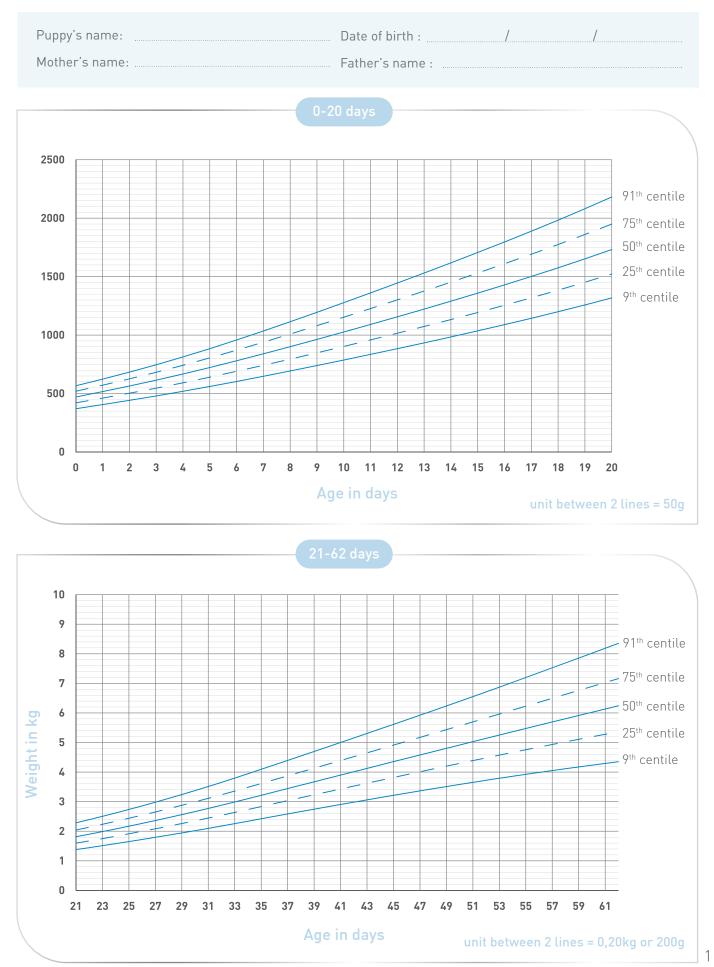






PUPPY EARLY GROWTH CHART SIBERIAN HUSKY

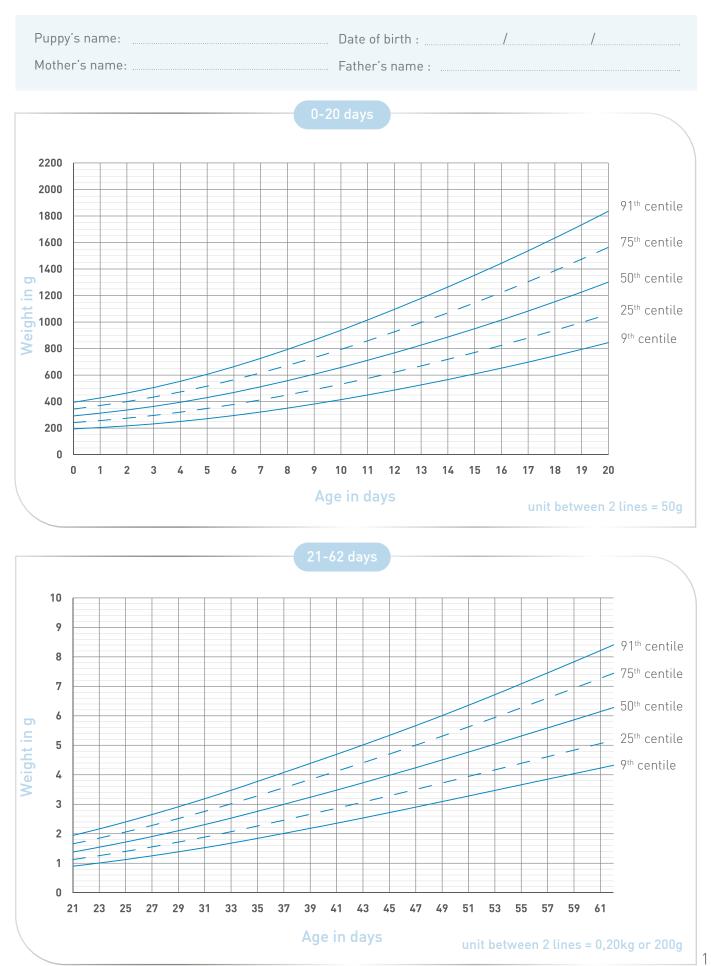






PUPPY EARLY GROWTH CHART SMALL MUNSTERLANDER POINTER

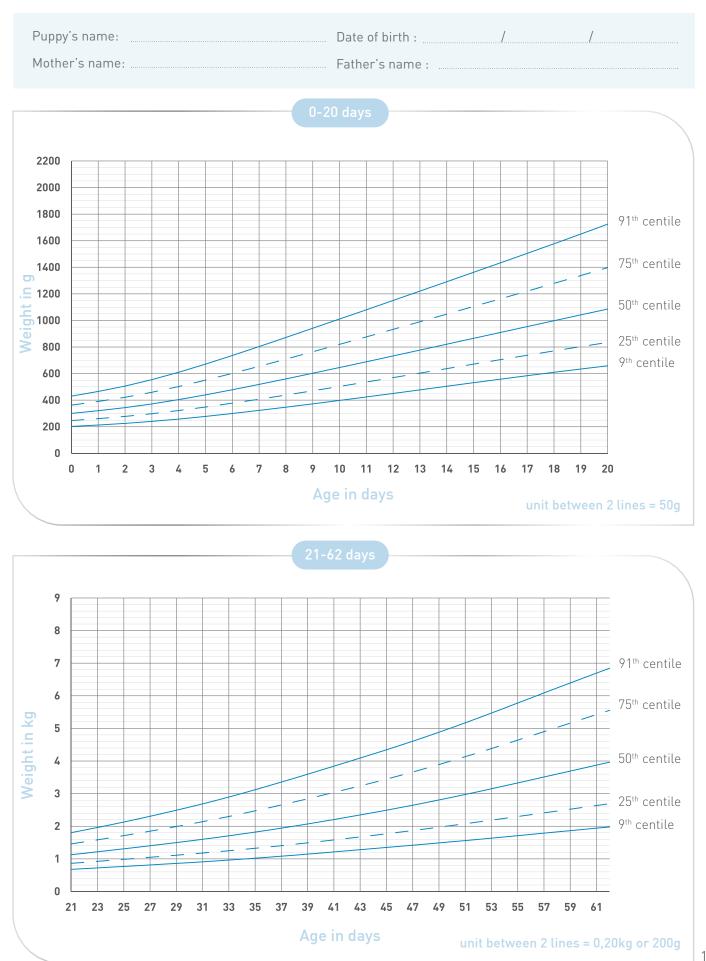






PUPPY EARLY GROWTH CHART STAFFORDSHIRE BULL TERRIER

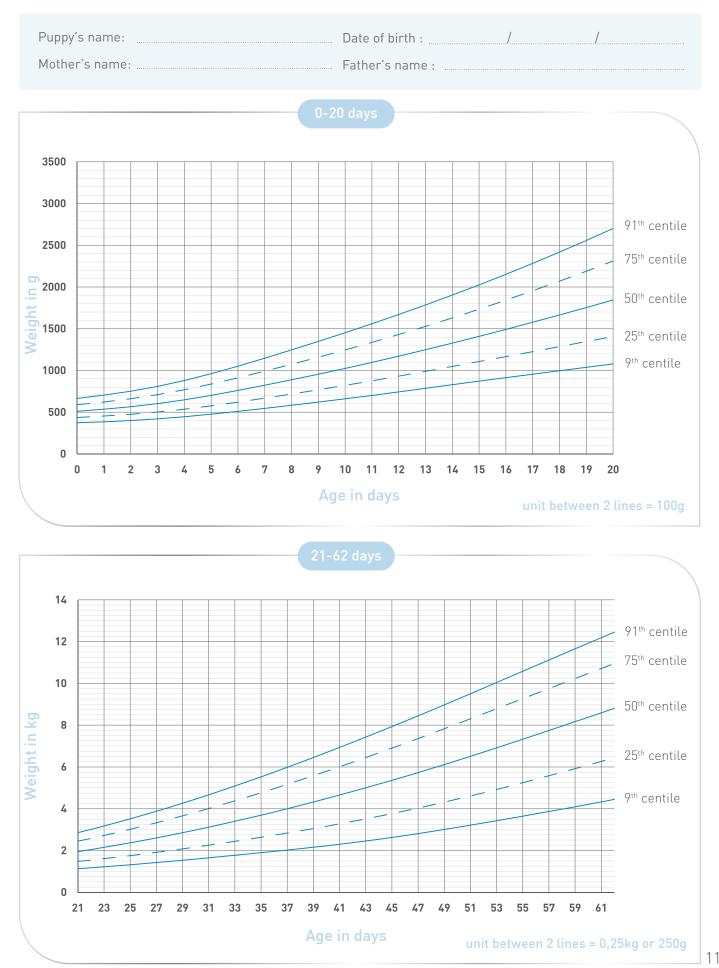






PUPPY EARLY GROWTH CHART ST BERNARD

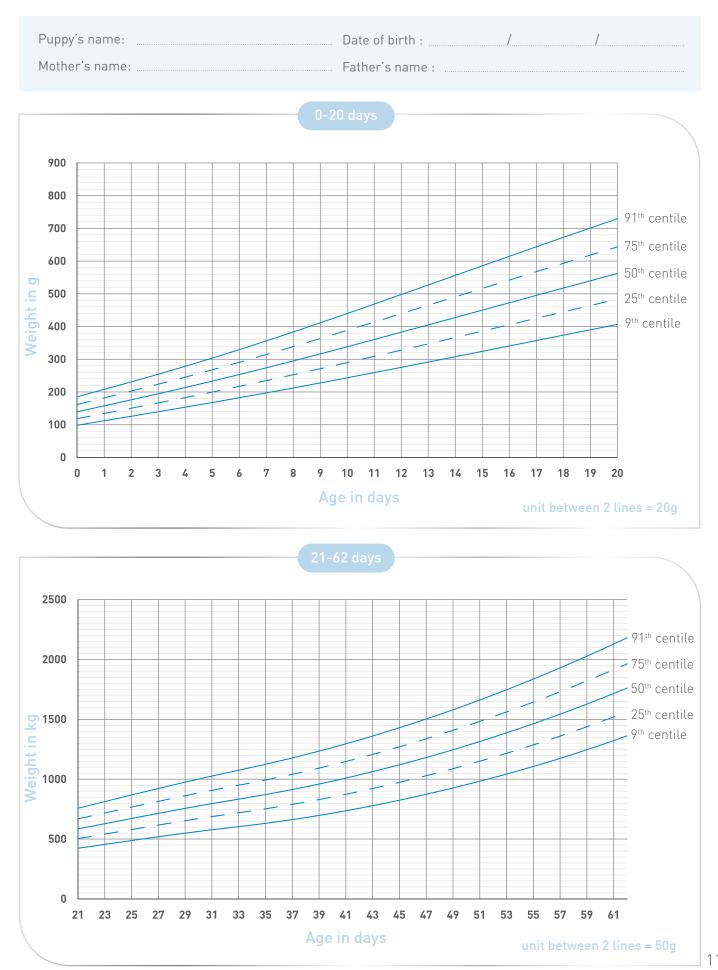






PUPPY EARLY GROWTH CHART TIBETAN SPANIEL

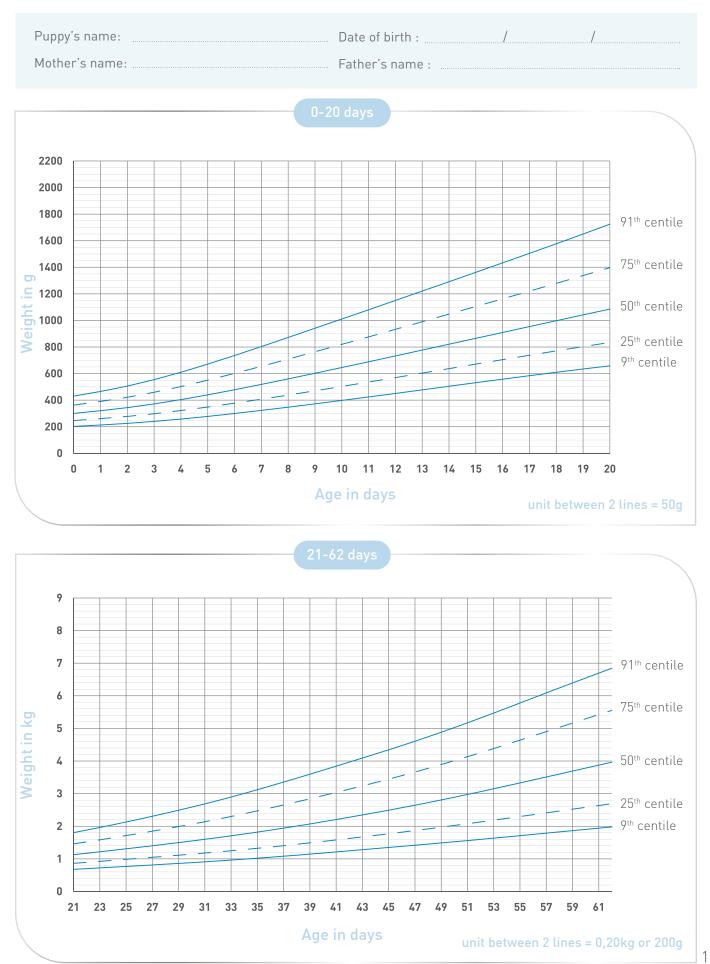






PUPPY EARLY GROWTH CHART WELSH CORGI PEMBROKE



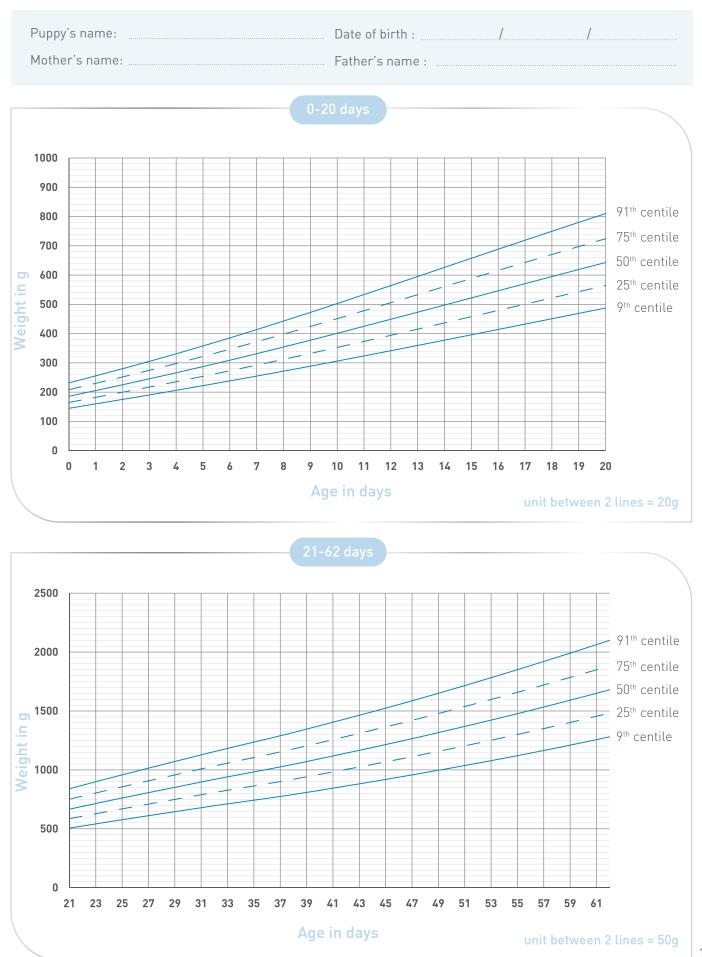


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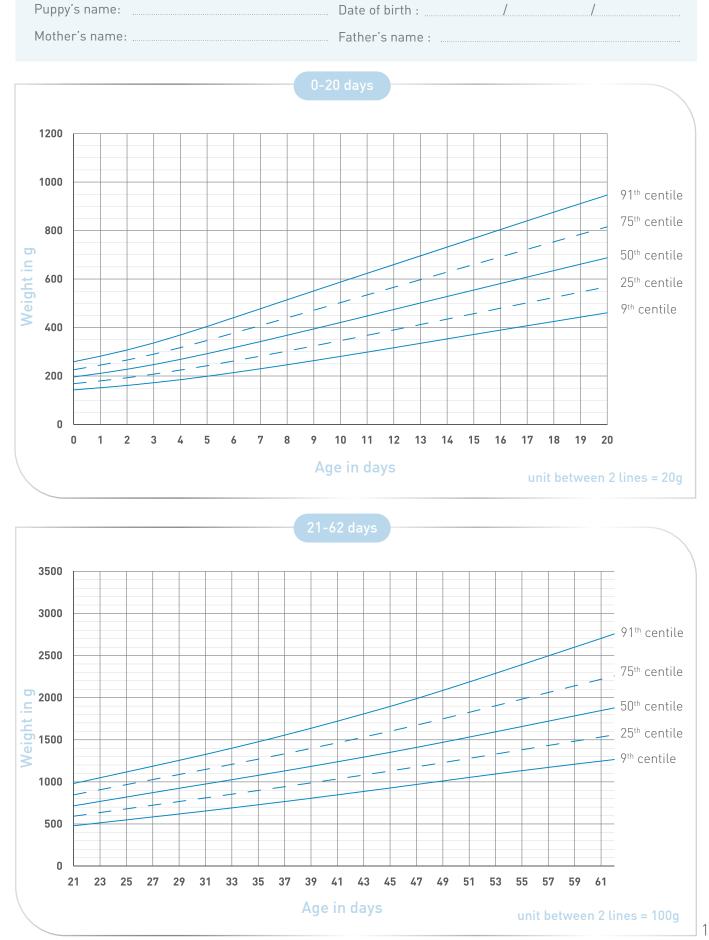


PUPPY EARLY GROWTH CHART WEST HIGHLAND WHITE TERRIER





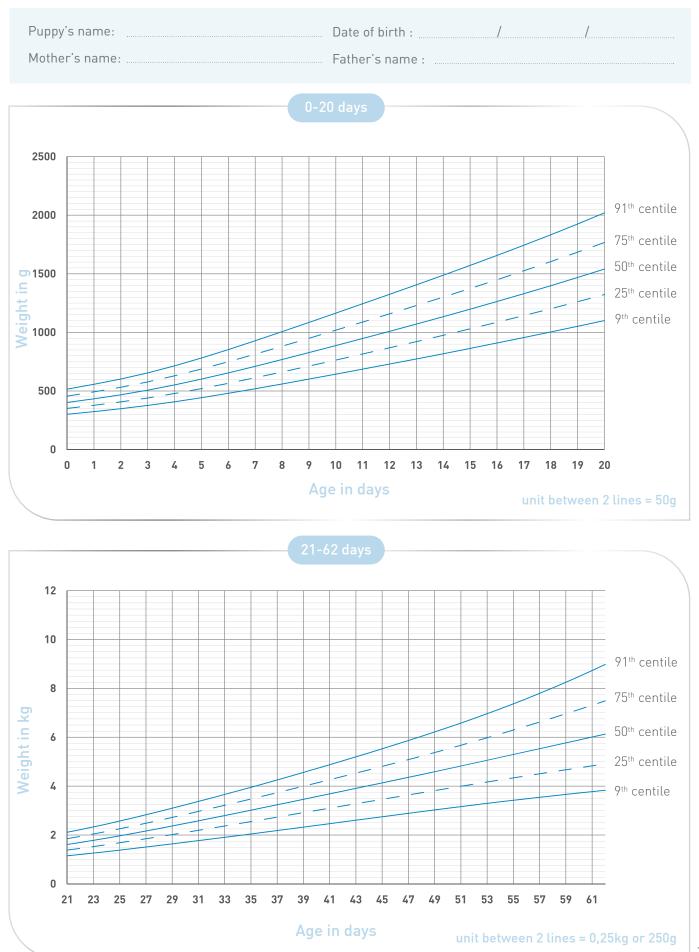






PUPPY EARLY GROWTH CHART WHITE SWISS SHEPHERD DOG

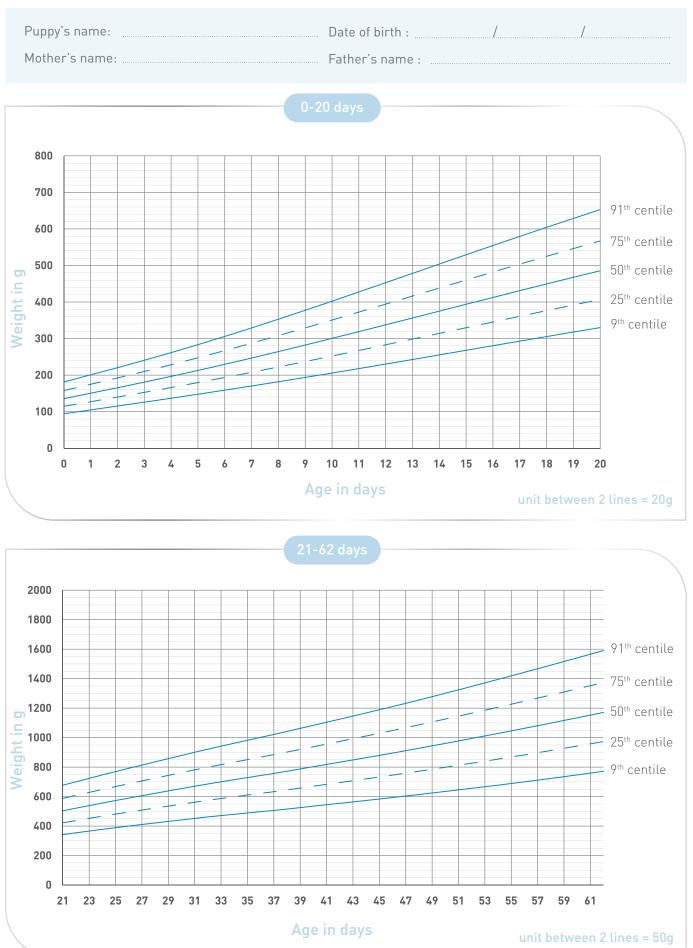






PUPPY EARLY GROWTH CHART YORKSHIRE TERRIER







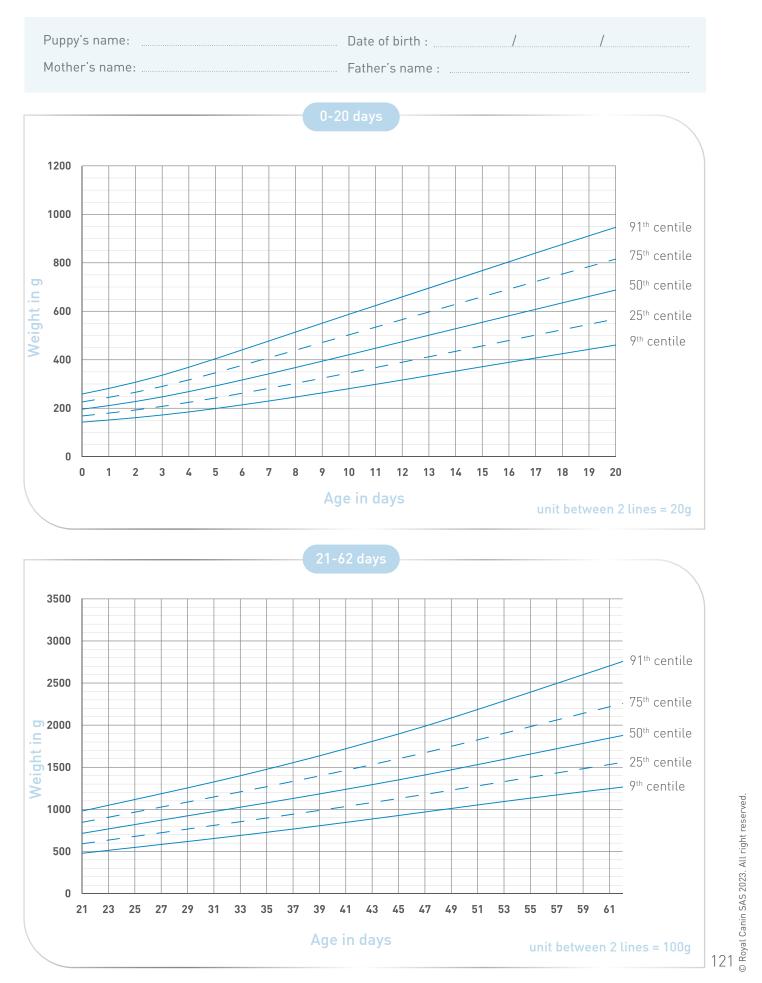
 Age in days

 unit between 2 lines = 50g

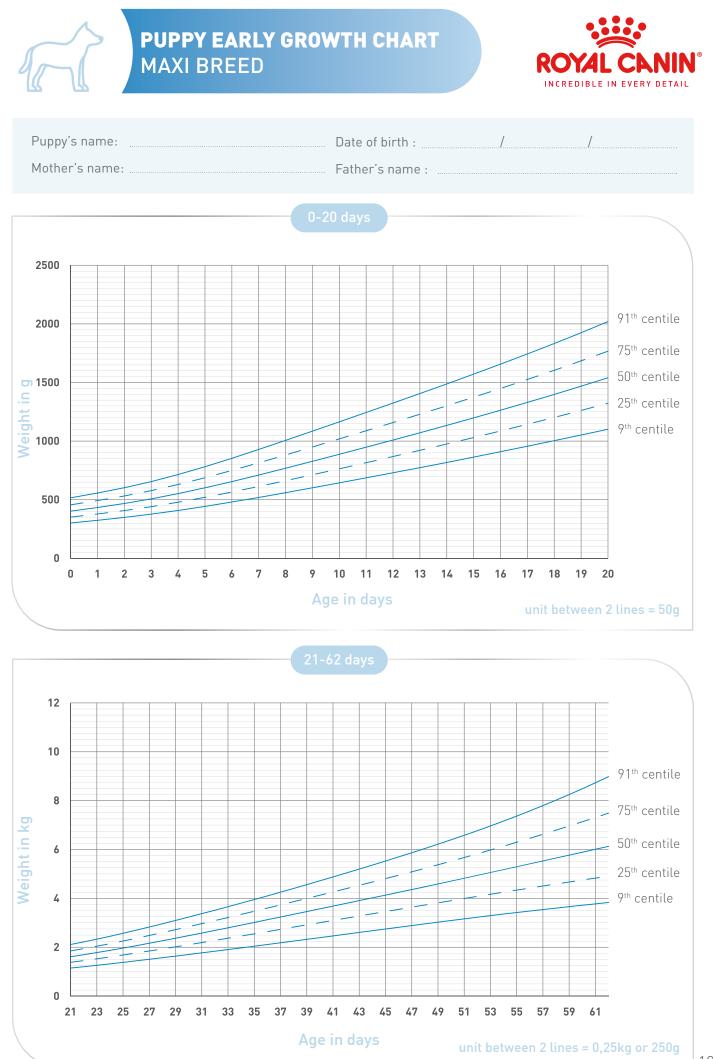


PUPPY EARLY GROWTH CHART MINI BREED

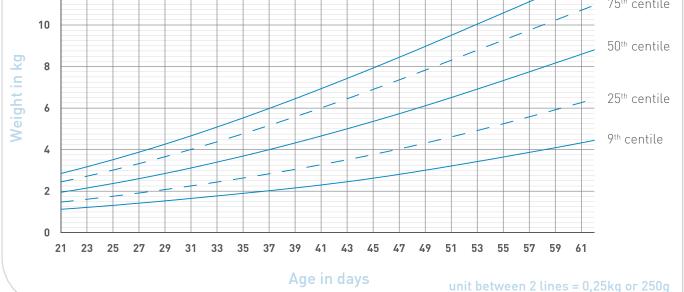














At 2 months of age, the puppy will probably leave the breeding facility to join a new family where the growing phase will continue until the puppy reaches adult weight. During this period, the close follow-up of body weight evolution must stay at the core of his health check.

In this perspective, you can give to the new pet owner the filled neonatal growth chart of the puppy, explaining your role following his weight gain thanks to this tool. Then you can encourage the pet owner to continue the body weight follow-up of his puppy, providing him with the printed appropriate pediatric growth charts from 3 months of age up to adulthood (pages 126 to 145). You can advise the pet owners to share the growth charts with their veterinarian to follow the growth of their puppy together.

Correspondence:

Either the adult weight is known and thus the adapted pediatric growth charts can be selected or you may use this corresponding table to help you at the beginning. Do not forget that you can change of the higher or lower weight category growth charts at anytime to make sure to have the most appropriate follow-up of the growing pattern of the puppy. In case of doubt and for any question related to the growth, contact with the veterinarian.

- X-Small : Toy
- Small : Small
- Bedium : Medium small or Medium large
- Large : Medium large or Large

No pediatric growth charts for giant breed dogs (adult weight more than 40kg)

Possible to use the online version: https://www.waltham.com/resources/puppy-growth-charts

If you're looking for more details, please read the science behind these growth charts:

Salt C, Morris PJ, German AJ, Wilson D, Lund EM, Cole TJ, Butterwick RF. Growth standard charts for monitoring bodyweight in dogs of different sizes. PLoS One. 2017 Sep 5;12(9):e0182064. doi: 10.1371/journal. pone.0182064.

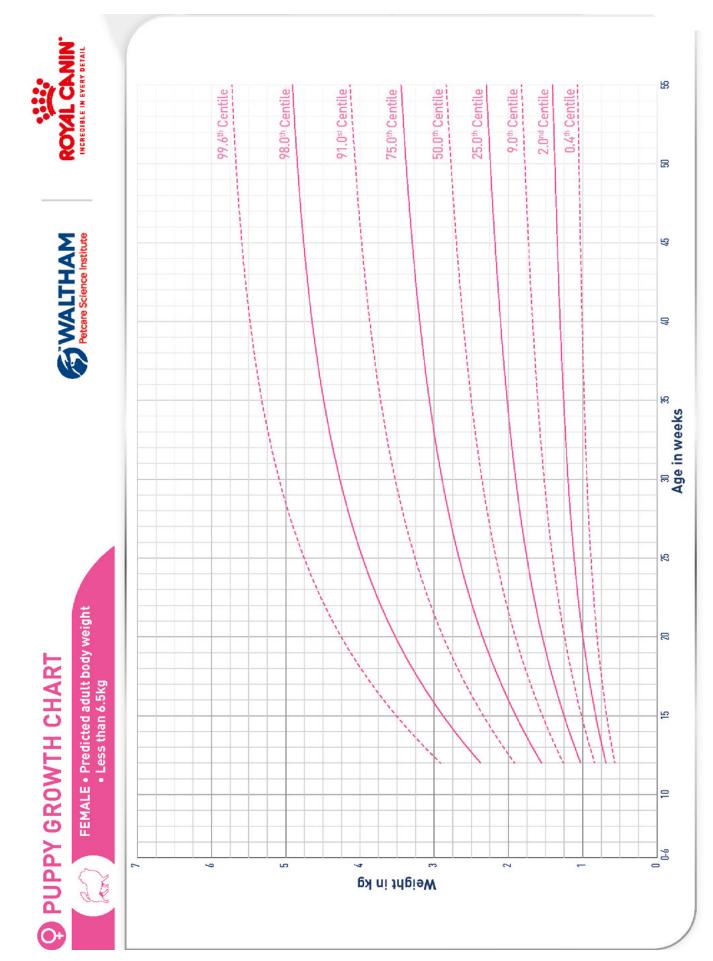
Salt C, Morris PJ, Butterwick RF, Lund EM, Cole TJ, German AJ. Comparison of growth patterns in healthy dogs and dogs in abnormal body condition using growth standards. PLoS One. 2020 Sep 23;15(9):e0238521. doi: 10.1371/journal.pone.0238521

These Growth Curves are not intended to be a diagnostic tool or predict the growth of any particular pet. Instead, this is a monitoring tool intended to assess the growth pattern of a given pet in comparison to the standard at the same size & age category.







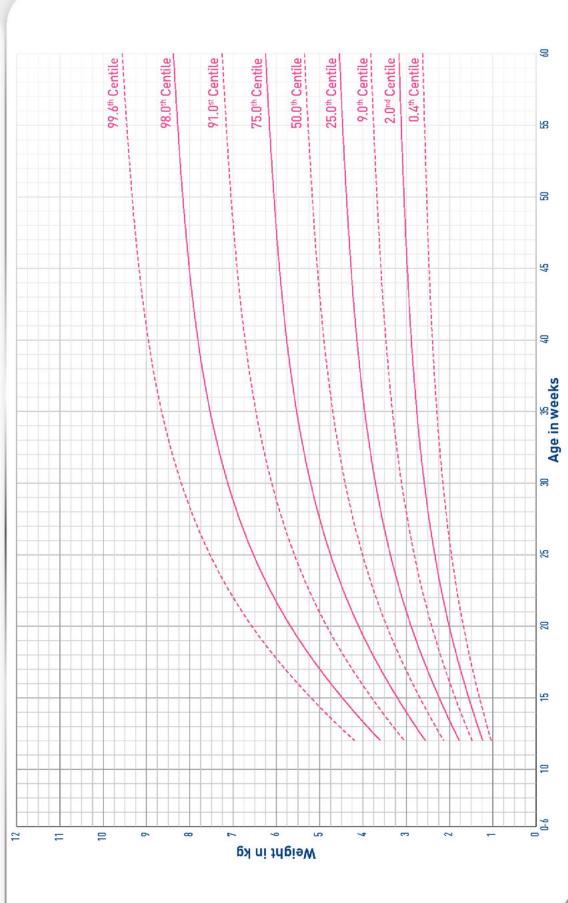








ROYAL CANIN INCREDIBLE IN EVERY BETAIL 99.6th Centile MALTHAM Petcare Science Institute FEMALE • Predicted adult body weight PUPPY GROWTH CHART 6.5-9kg SE 12 10 6 =







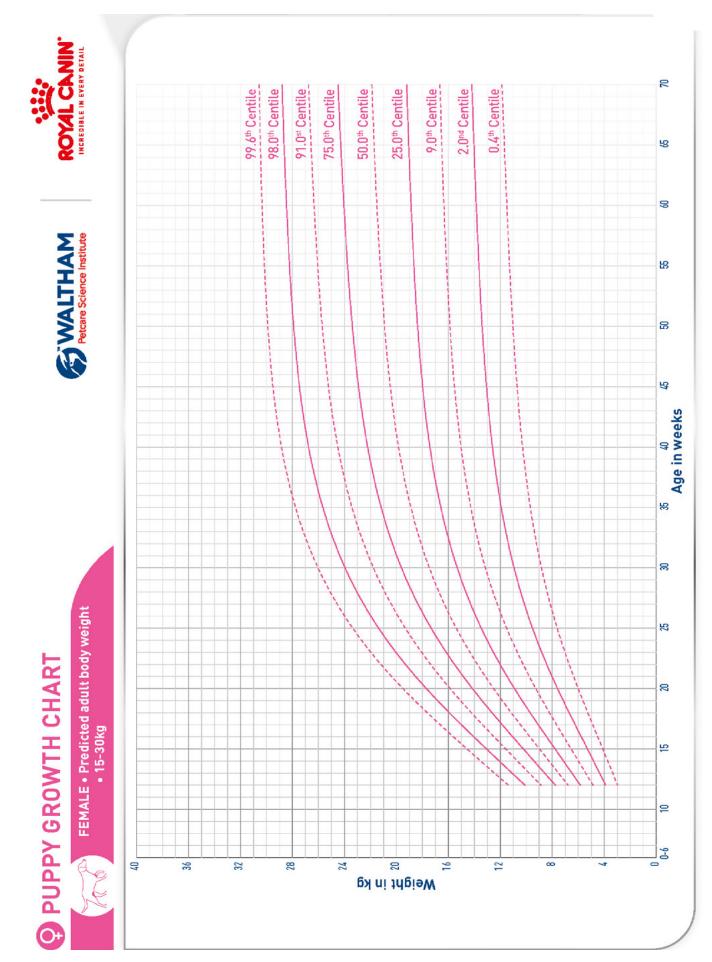


ROYAL CANIN INCREDIBLE IN EVERY BETAIL 58 99.6th Centile 91.0st Centile 50.0th Centile 98.0th Centile 25.0th Centile 9.0th Centile 2.0nd Centile 75.0th Centile 0.4th Centile 99 ß Petcare Science Institute 20 45 35 40 Age in weeks 8 22 FEMALE • Predicted adult body weight PUPPY GROWTH CHART 2 9-15kg 12 10 9-0 R 19 -0 6 16 14 12 19 œ 4 2 Weight in kg





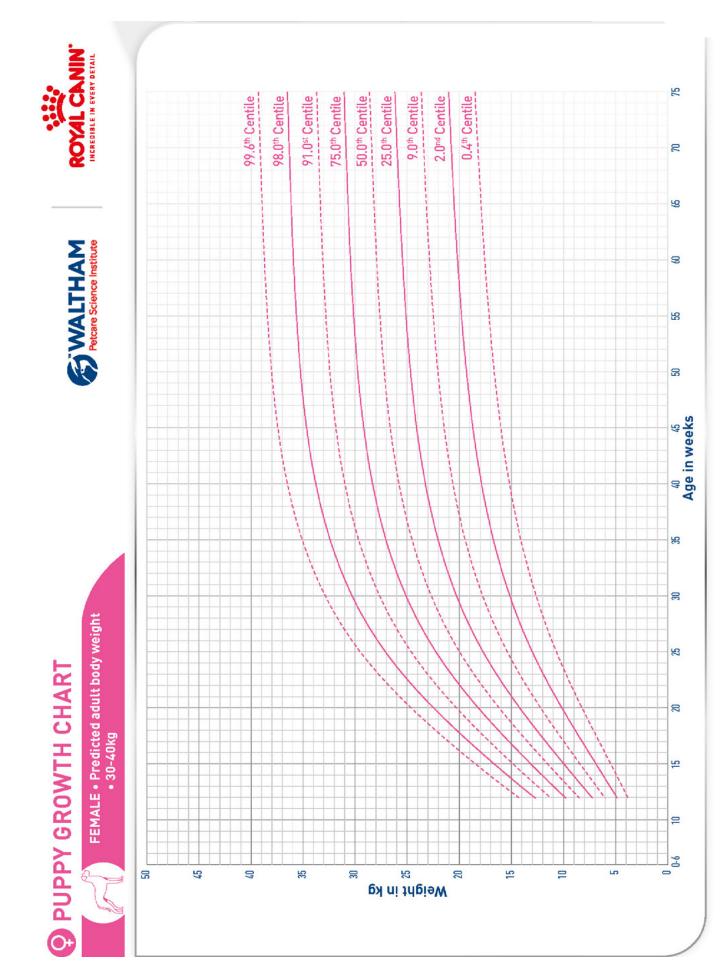


















B

3

52

40

35

30 Age in weeks

52

2

12

10

2

0

ROYAL CANIN INCREDIBLE IN EVERY BETAIL .)(99.6th Centile 98.0th Centile 91.0st Centile 75.0th Centile 50.0th Centile 25.0th Centile 9.0th Centile 2.0nd Centile 0.4th Centile MALTHAM Petcare Science Institute MALE • Predicted adult body weight PUPPY GROWTH CHART Less than 6.5kg -9 S 4 3 2 -T Weight in kg

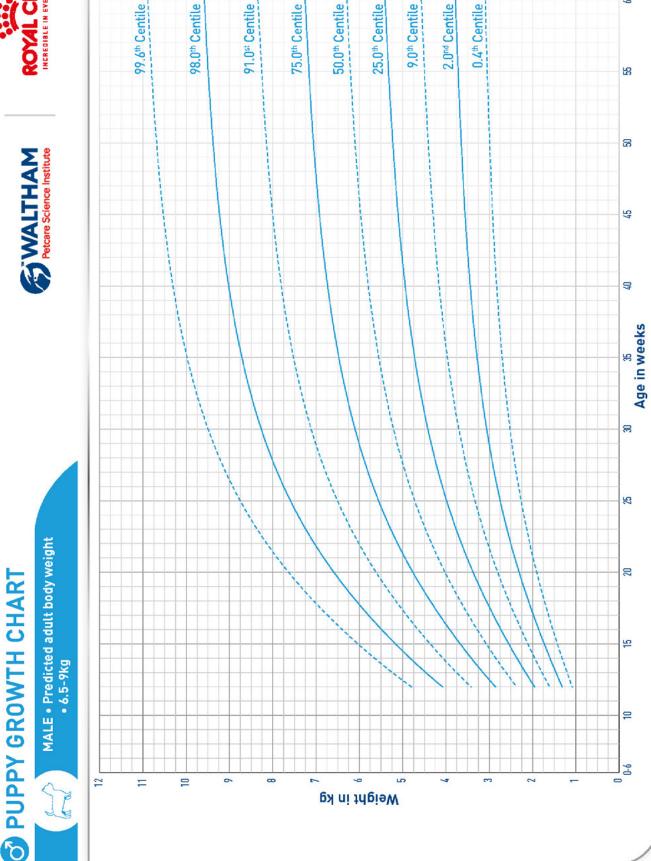






99

ROYAL CANIN HEREDIBLE IN EVERY BETAIL .)(







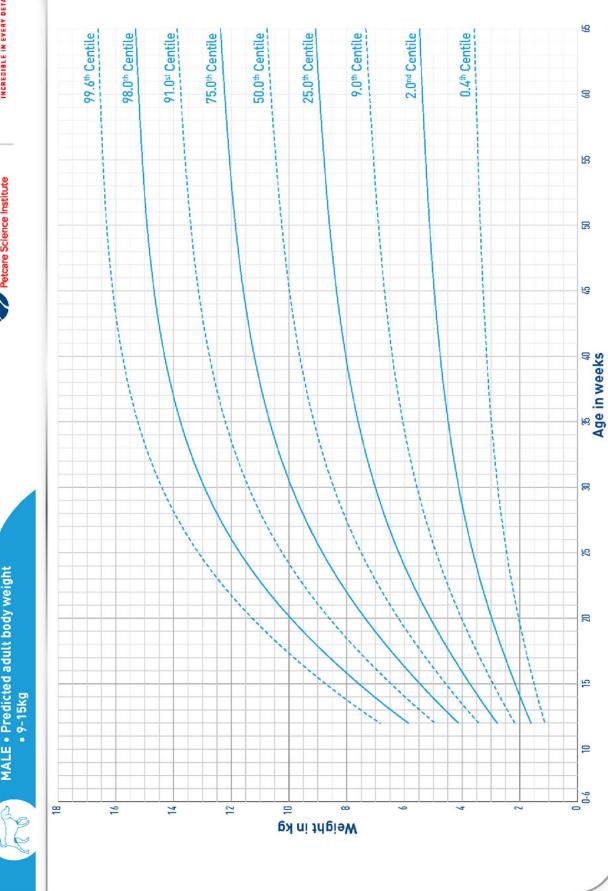


ROYAL CANIN INCREDIBLE IN EVERY DETAIL .)(



MALE • Predicted adult body weight

PUPPY GROWTH CHART





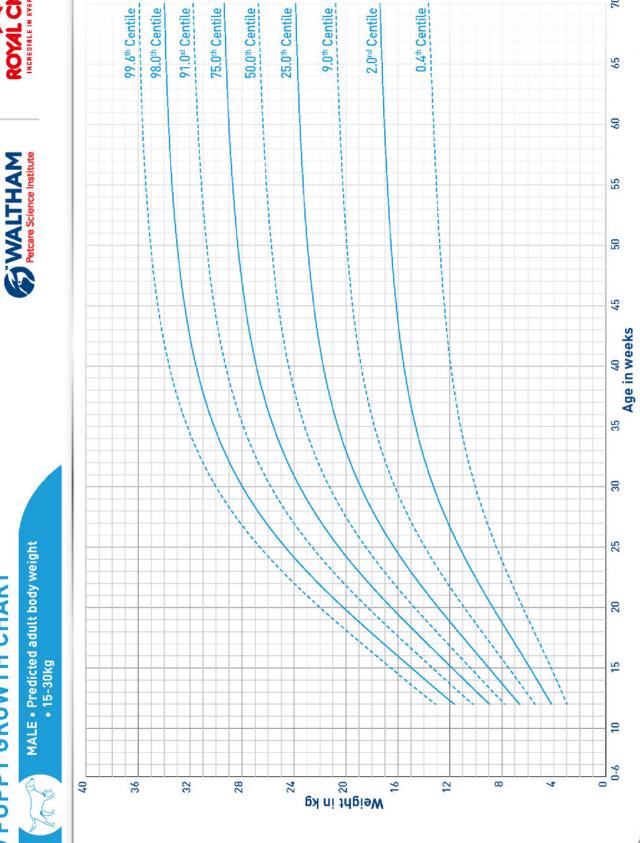




70

COAL CANIN INCREDIBLE IN EVERY DETAIL

PUPPY GROWTH CHART









COVAL CANIN



MALE • Predicted adult body weight

PUPPY GROWTH CHART

