Farm Leftovers

I can solve division problems with remainders.

These pigs are fed the leftovers from the family meal. Can you work out what each pig will get to eat? Show all your working out.

1)   On Twinkl Farm, there are 2 pigs and the family ate the following:

The family ate 350g of a $\frac{1}{2}$kg bag of carrots. The rest were for the pigs.

6 people had 2 Yorkshire puddings each, out of a bag of 18 Yorkshire puddings. The rest were for the pigs.

4 people drank 350ml of juice each, out of a 2-litre jug of juice. The rest was for the pigs.

6 people had 3 potatoes each, out of a bag containing 82 potatoes. The rest were for the pigs.

What did each pig get to eat?

Each pig gets _____ of carrots.

Each pig gets _____ Yorkshire puddings.

Each pig gets _____ of juice.

Each pig gets _____ potatoes.

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2) On Forest Farm, there are 4 pigs and the family ate the following:

100ml of sauce was shared equally between 6 people. The rest was for the pigs.

6 people shared a 1kg pack of spaghetti between them. The rest was for the pigs.

2 adults ate 5 mushrooms each and 2 children ate 2 mushrooms each, out of a pack containing 30 mushrooms. The rest of the whole mushrooms were split equally between the 3 babies (to make baby food) and any leftovers were given to the pigs.
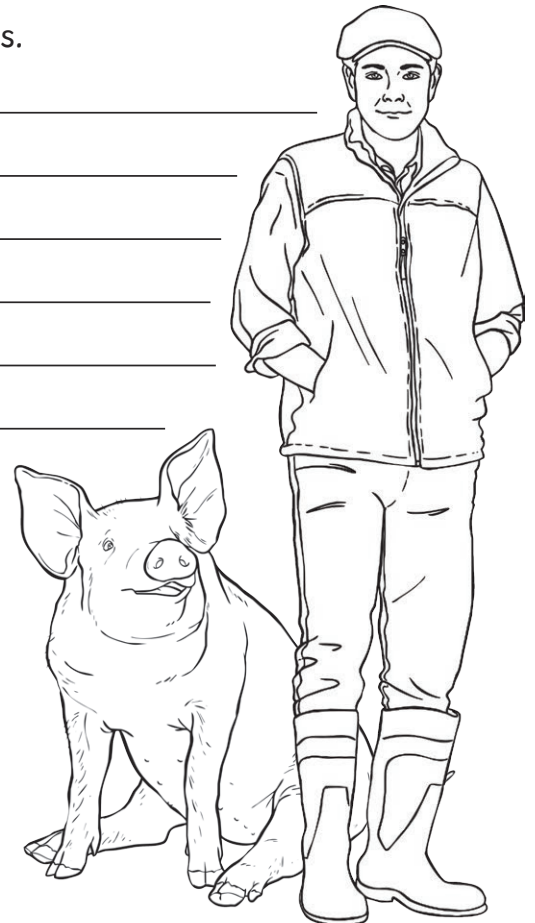
What did each pig get to eat?

Each pig gets _____ of sauce.

Each pig gets _____ of spaghetti.

Each pig gets _____ of a mushroom.

3) If you were a pig, which farm would you want to live on?

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4) Write your own leftover problem for a farm with 10 pigs.

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Farm Leftovers **Answers**

Question	Answer
1.	On Twinkl Farm, there are 2 pigs and the family ate the following:
	500g – 350g = 150g 150g ÷ 2 = 125g of carrots each 6 x 2 = 12 18 – 12 = 6 6 ÷ 2 = 3 Yorkshire puddings each 350ml x 4 = 1400ml 2000ml – 1400ml = 600ml 600ml ÷ 2 = 300ml of juice each 6 x 3 = 18 82 – 18 = 64 64 ÷ 2 = 32 potatoes each
2.	On Forest Farm, there are 4 pigs and the family ate the following:
	100ml ÷ 6 = 16r4 4 ÷ 4 = 1ml of sauce each 1000g ÷ 6 = 166r4 4 ÷ 4 = 1g of spaghetti each (2 x 5) + (2 x 2) = 14 30 – 14 = 16 16 ÷ 3 = 5r1 The pigs get 1 mushroom between them so they get a quarter of a mushroom each.
3.	If you were a pig, which farm would you want to live on?
	Twinkl Farm – the pigs get much more food there!
4.	Write your own leftover problem for a farm with 10 pigs.
	Multiple answers possible.

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Farm Leftovers

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These pigs are fed the leftovers from the family meal. Can you work out what each pig will get to eat? Show all your working out.

1) On Twinkl Farm, there are 2 pigs and the family ate the following:

The family of 4 cooked 350g of carrots out of a $\frac{1}{2}$kg bag. They each had the same amount and the rest were given to the pigs, along with the remaining carrots from the bag.

6 people shared 12 Yorkshire puddings equally, out of a bag of 18 Yorkshire puddings. The rest were for the pigs.

4 people poured 346ml of juice each out of a 2-litre jug of juice. The rest was for the pigs.

6 people had 3 potatoes each, out of a bag containing 82 potatoes. The remaining potatoes were packed in bags of 6 and any leftovers were given to the pigs.

What did each pig get to eat?

Each pig gets _____ of carrots.

Each pig gets _____ Yorkshire puddings.

Each pig gets _____ of juice.

Each pig gets _____ potatoes.

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2) On Forest Farm, there are 4 pigs and the family ate the following:

346ml of sauce was shared equally between 6 people. The rest was for the pigs.

16 people shared a 1kg pack of spaghetti between them and the rest was for the pigs.

2 adults ate 6 mushrooms each and 2 children ate 4 mushrooms each, out of a pack containing 40 mushrooms. The rest of the whole mushrooms were split equally between the 3 babies (to make baby food) and any leftovers were given to the pigs.
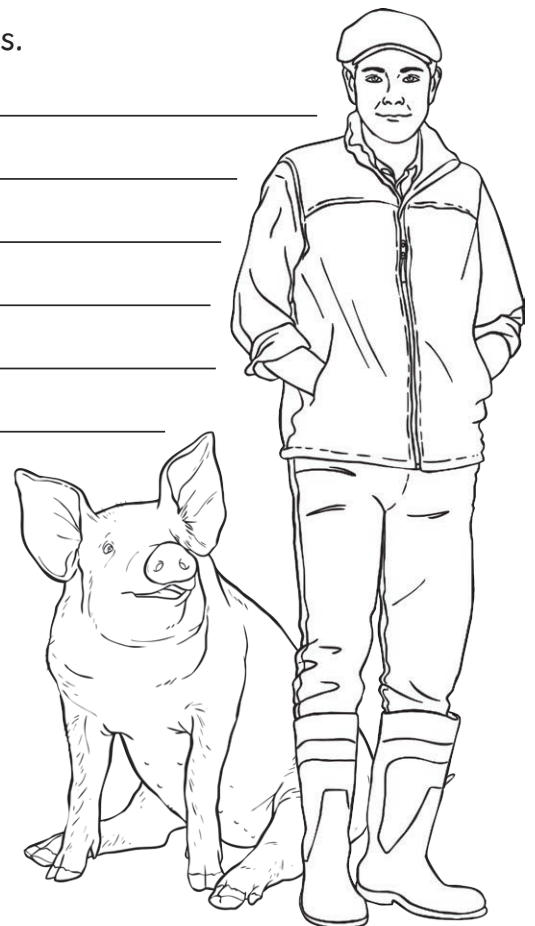
What did each pig get to eat?

Each pig gets _____ of sauce.

Each pig gets _____ of spaghetti.

Each pig gets _____ of a mushroom.

3)   If you were a pig, which farm would you want to live on?

_____

4)   Write your own leftover problem for a farm with 10 pigs.

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Farm Leftovers **Answers**

Question	Answer
1.	On Twinkl Farm, there are 2 pigs and the family ate the following:
	500g – 350g = 150g left in the bag 350g ÷ 4 = 87r2 150g + 2g = 152g 152g ÷ 2 = 76g of carrots for each pig 18 – 12 = 6 6 ÷ 2 = 3 Yorkshire puddings each 346ml x 4 = 1384ml 2000ml – 1384ml = 616ml 616ml ÷ 2 pigs = 308ml of juice each 6 x 3 = 18 82 – 18 = 64 64 ÷ 6 = 10r4 = 2 potatoes each
2.	On Forest Farm, there are 4 pigs and the family ate the following:
	346 ÷ 6 = 57r4 = 1ml of sauce each 1000g ÷ 16 = 62r8 8g ÷ 4 = 2g of spaghetti each (2 x 6) + (2 x 4) = 12 + 8 = 20 40 – 20 = 20 20 ÷ 3 = 6r2 2 mushrooms ÷ 4 pigs = ½ a mushroom each
3.	If you were a pig, which farm would you want to live on?
	Twinkl Farm – the pigs get much more food there!
4.	Write your own leftover problem for a farm with 10 pigs.
	Multiple answers possible.

Farm Leftovers

I can solve division problems with remainders.

1) On Twinkl Farm, there are 64 pigs. The local restaurant sometimes donates leftovers to feed the pigs on the farm. Solve these leftover problems, showing each step of your working out.

The restaurant makes 256 litres of soup but only sells half of it. The rest is for the pigs. How much does each pig get?

The restaurant is really empty on Thursday night and makes far too many chips. The 7296 chips are shared equally between 42 tables. How many are left for the pigs to share?

They order 5kg of cheese, which they split into 85 equal portions. Is there any left for the pigs to share? How much?

They bake some biscuits to serve on the tables. They package the 332 biscuits into packs of 28. Are there enough biscuits left for each pig to have half a biscuit?

The restaurant packs desserts in trays, which contain 12 desserts each. If they have 452 desserts to pack away, how many full trays will they have? Will there be any leftovers for the pigs to share?

How many 6-litre buckets will the farmer need in order to carry home 52 987ml of leftover sauce for his pigs?
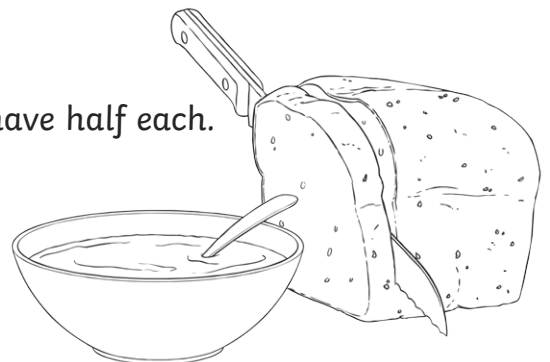
Each pig gets _____ of soup.

Each pig gets _____ chips.

The pigs share _____ of cheese.

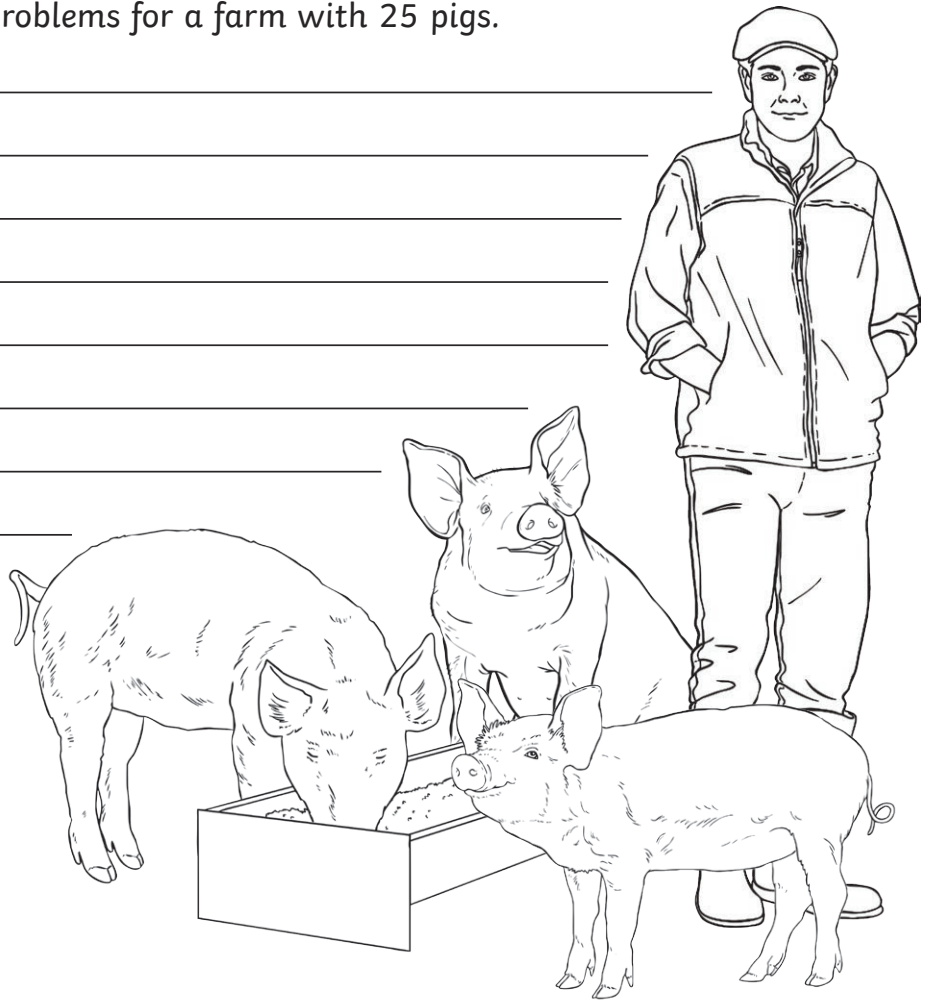There _____ enough biscuits for every pig to have half each.

The pigs share _____ desserts.

The farmer will need _____ buckets.

2) Write your own leftover problems for a farm with 25 pigs.

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Question	Answer
1.	On Twinkl Farm, there are 64 pigs. The local restaurant sometimes donates leftovers to feed the pigs on the farm. Solve these leftover problems, showing each step of your working out.
	256 litres ÷ 2 = 128 litres *128 litres ÷ 64 = 2 litres of soup each* *7296 ÷ 42 = 173r30* *30 chips* *5000g ÷ 85 = 58r70* *There is 70g left for the pigs to share.* *332 ÷ 28 = 11r24* *No – there would need to be 32 biscuits left over for each pig to have half a biscuit.* *452 ÷ 12 = 37r8* *They will have 37 full trays and there will be 8 desserts left over for the pigs to share.* *52 987ml = 52.987l* *8 buckets x 6l = 48l (not enough)* *9 buckets x 6l = 54l (more than enough)* *The farmer will need 9 buckets. The last bucket won't be full.*
2.	Write your own leftover problems for a farm with 25 pigs.
	Multiple answers possible.