

Discussion Problems

Step 4: Four Operations

National Curriculum Objectives:

Mathematics Year 4: (4M9) [Estimate, compare and calculate different measures, including money in pounds and pence.](#)

Mathematics Year 4: (4F10b) [Solve simple measure and money problems involving fractions and decimals to two decimal places.](#)

About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 4 Money](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Four Operations

1. Harris, Zara, Micky and Gail went out for a meal together. They each had a main course, a side dish and a dessert.

Menu					
Main courses		Sides		Desserts	
Pizza	£4.65	Fries	£2.60	Ice cream	£3.94
Burger	£5.29	Onion Rings	£3.10	Cake	£4.55
Pasta	£3.43	Garlic Bread	£3.18	Apple pie	£3.52
Hot Dog	£4.05	Salad	£2.10	Fruit salad	£4.62
Chicken	£5.70	Corn	£1.99	Cookies	£3.86
★ ★ Wednesday Meal Deal! 3 courses for only £8.75! ★ ★					

Zara had the most expensive choices on the menu and Micky had the least expensive choices on the menu. The total bill was than £43.64. Harris and Gail chose foods nobody else was having.

- Can you work out what all the friends had to eat?
- If they shared the bill equally, how much did they each pay?
- How much less would it cost each of them if they came on a Wednesday?

DP

2. Bella has saved £48 in her savings account.

- In the first month she saved one eighth of her total.
- In the second month she saved ten times less than she saved in the third month.
- In the third month she saved twice as much as in the first month, but only half the amount she saved in the fifth month.
- In the fourth month, Bella spent as much as she had saved in the first month.
- She made up the final amount in the sixth month.
- How much did Bella save each month?



DP

Four Operations

1. Harris, Zara, Micky and Gail went out for a meal together. They each had a main course, a side dish and a dessert.

Zara had the most expensive choices on the menu and Micky had the least expensive choices on the menu. The total bill was £43.64. Harris and Gail chose foods nobody else was having.

- Can you work out what all the friends had to eat?

Zara had chicken, garlic bread and fruit salad (£13.50)

Micky had pasta, corn and apple pie (£8.94)

Harris and Gail had pizza and hot dog, fries and salad, and ice cream and cookies (£21.20)

- If they shared the bill equally, how much did they each pay?

They would each pay £10.91

- How much less would it cost each of them if they came on Wednesday?

It would cost them each £2.16 less.

DP

2. Bella has saved £48 in her savings account.

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- In the second month she saved ten times less than she saved in the third month.
- In the third month she saved twice as much as in the first month, but only half the amount she saved in the fifth month.
- In the fourth month, Bella spent as much as she had saved in the first month.
- She made up the final amount in the sixth month.

How much did Bella save each month?

Month 1 £6.00

Month 2 £1.20

Month 3 £12.00

Month 4 – £6.00

Month 5 £24.00

Month 6 £12.80



DP