A weekend away with a friend

Family Maths Toolkit

Imagine

Imagine you had £300 to spend on a weekend away with a friend – where would you like to go? What would you like to do? Would you choose somewhere luxurious or somewhere cheap so you can do more?

Use brochures or online research to find out the costs of the trip you fancy. How long would it take you to save up for it?

Plan a budget. Using a table like the one on the next page helps you to be sure you have not missed anything important.

Talk about

Compare with other members of your family and their choices – have you chosen the same things? What have you done differently?

What percentage of the £300 budget have they used? Who has the best value for money – and what makes it the best value?

Family comments:

Child comments:

Curriculum Link

- Compare two quantities using percentages
- Use unit pricing to solve problems
- Key vocabulary - spend, price, cost, total, budget, value for money

National Numeracy
Getting on with numbers

Registered charity no: 1145669

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Options	Costs	Most expensive	Cheapest
Travel Car (need to estimate fuel costs) Train Bus Flight			
Accommodation Camping Caravan Activity park B and B Hotel			
Food Self-catering (need to estimate) B and B (need to buy lunch/dinner) Full board			
Activities Free (such as the beach) Adventure activities Cinema or theatre Museum Other			
Total			

Registered charity no: 1145669

Trainer dilemma

Family Maths Toolkit

Talk about

Charlie would like a new pair of trainers and has asked his parents to pay for them. His friend has the designer-brand trainers, but Charlie's parents say they're too expensive.

Charlie's income

Saturday job – paper round	£7.50 an hour from 7.00am to 9.00am
Weeding a neighbour's garden	£2 a week
Household jobs	£5 a week
Monthly income total	£88.00 Plus a £20 birthday present = **£108.00**

Charlie's outgoings

Swimming club Bus to swimming	£4.50 a week £1.80 a week
Drinks at the youth club	£3.00 a week
Sweets	£4 a week
Gaming	£3 a month
Comic	£4.85 a week
Monthly outgoings total	**£75.60**

£18.99
Unbranded trainers

£72.99
Designer-brand trainers

Trainer dilemma

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What you would advise Charlie to do and why? Would you buy the unbranded pair? Would you save up for the designer-brand pair to impress your friends? What would your family advise Charlie to do? Do they think the same as you?

If Charlie bought the designer-brand trainers himself, he'd need to save up. How much could he save each month? Could he change his income or outgoings to buy the trainers sooner?

If Charlie's parents bought the trainers for him, they have an option to spread the cost over 10 weeks (with 15% simple interest added). How much would they pay per week? Is this a good offer? If Charlie offered to pay the interest, would this be reasonable? What do you think his parents would say?

Charlie's been told that the prices for both pairs of trainers will go up in 4 months' time – would this affect what you would advise him to do?

Apply to real life

Think about something you might really like and explore the different ways you could pay for it. Write a simple budget like Charlie's example and plan how you could save for a large item.

Family comments:

Child comments:

Curriculum Link

- Solve problems involving percentages
- Solve original value problems and calculate simple interest
- Key vocabulary – price, buy/sell, spend, pay, save, budget, expenses, total, increase, amount, simple interest, credit

National Numeracy
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Weekly shopping

Family Maths Toolkit

Talk about

All families need to buy food. How much does your family usually spend on grocery shopping in a week? Who does the shopping and how do they decide what to buy?

On the next page is a receipt from the Lee family. What savings have they made? What fraction of their items would you consider to be 'luxury' – what percentage of their spend is this?

One week, the supermarket have an offer of 20% off all fresh fruit and vegetables. How much would this save the Lee family? Would you buy more fruit and vegetables with this offer?

Apply to real life

Look at your weekly shop receipt. Did you get any special offers or savings – maybe you used coupons or bought larger packs to save money?

If possible, go to a shop (or look online), and find 5 special offers – what percentage do they save the customer on average? Would you recommend them to the person paying the bill? Are 'special offers' always good value for money?

Curriculum Link

- Define % as 'number of parts per hundred'
- Interpret percentages and percentage changes as a fraction or decimal
- Solve problems using % change – increase or decrease
- Use unit pricing to solve problems
- Key vocabulary – budget, total, savings, reduce, percentage, average

Family comments:

Child comments:

Registered charity no: 1145669

Weekly shopping

Family Maths Toolkit

Quantity	Product	Total
1	Tomato Ketchup Sauce 700G	£2.70
1	Beef Lean Steak Mince 500G 5% Fat	£2.79
1	Spreadable Butter 500G	£3.50
1	Cucumber Portion	£0.35
2	Carrots Loose	£0.10
1	Oaty Biscuits 300G (Usually £0.75)	Free - coupon
1	Orange juice 1L	£2.48
1	Granary Bread 800G	£1.45
1	Yellow Peppers Each	£0.45
1	Red Seedless Grapes 500G	£2.00
1	Potatoes 750G	£1.79
1	Baby Plum Tomatoes 325G	£1.00
1	Jumbo Rolled Oats Porridge 1Kg	£2.20
1	Pasta sauce 500G	£1.00
1	Moroccan Couscous 250G	£2.25
1	Pears 4 Pack 550G	£2.10
1	Braeburn Apple Minimum 5 Pack	£1.60
1	Tea Bags 80S 200G	£5.00
1	Finest Fish Fillets 190G (Special offer: usually £4.50)	£3.50
1	Blueberries 125G	£0.89
1	Assortment Biscuits 365G (Special offer: usually £2.48)	£2.00
1	Chilli Heatwave Tortilla Chips 180 G	£1.25
1	Finely Sliced Ham 125G (Special offer: usually £3.00)	£2.00
1	Mixed Vegetables 160G	£1.50
1	Soft toilet rolls x 9 (Special offer: usually £4.95 per pack)	£4.50
1	Sliced Runner Beans 80G	£0.79
1	Cheddar 550G	£3.50
2	Deluxe Mini Cups Ice Cream 4X95ml (Special offer: usually £4.50 per pack)	£6.00
1	Rhubarb Yogurt 4 X 120G	£1.00
2	Blackcurrant drink 750ml	£2.98
1	Semi-skimmed milk 2L	£1.80
1	British Diced Chicken Breast 650G	£3.80
2	Fish Fingers x 20 (Half price: usually £5.00 per pack)	£5.00
	Other savings made: Blackcurrant drink – usually £3.75 for a 1L bottle	**£73.27**