

Aim/context

To understand place value in monetary terms.
To develop a good understanding of the decimal point in money values.
To develop their skills of being able to round up or down a value of money.

Level 3 - Age group year 5/6

This game will ask the children to work out the value of a digit within an amount of money. They will also have to round up or down to the nearest hundred, ten and unit within a value of money.

Skills**Mathematics**

I can round any number to the nearest 10 or 100 to estimate the cost of a bill in a restaurant.

Financial Education

I know I need to check and keep basic financial information (e.g. checking my bank statement throughout the game)

Scottish Curriculum Ref: MNU 2-01a; 2-02a

Teacher tips

Previous knowledge needed:

- Talk about their experiences of visiting a restaurant and look at menus and bills from restaurants.
- To have experience of reading menus and bills.
- To be able to round numbers up and down.
- To have experience of recording money values using £ and a decimal point.

Key questions/prompts

Write £134.70 on the board. Ask the children questions related to the amount. E.g What is the value of the digit-1 in this amount? What is the value of the digit-4 in this amount? Can you round down this amount to the nearest 10. Address any misconceptions.

Repeat this with different money values until the children feel confident in answering these type of questions.

Group activity ideas

- Using the **Game Activity Sheet 3**, the children take turns to roll the die and move along the track. If they land on a tile with a price on, they must say what the value of each digit is in that price, if they answer correctly they can move forward 1, if they answer incorrectly they must move back 1. (The other player can check the answers on a calculator).
- Using **Rounding Up**, the children must round up/down the amount shown to the nearest 100 or 10.
- Sort restaurant bills (**Restaurant Bills 3**) into price order, starting with the lowest price.
- Using **Restaurant Bills 3** work out how much change to give to the customer.

The board sheet consists of 30 numbered squares arranged in a winding path. Ten yellow starburst callouts are placed on specific squares, each containing a monetary value. The values are: £36.46 (square 29), £64.37 (square 26), £231.50 (square 24), £29.81 (square 22), £83.76 (square 21), £98.32 (square 15), £44.65 (square 18), £125.23 (square 12), £71.30 (square 10), £57.48 (square 8), and £100.25 (square 7).

28	29	30			
27	£36.46				
26	25	24	23		
£64.37		£231.50	22		
			£29.81		
			21		
			£83.76		
			20		
			19		
	14	15	16		
		£98.32	17		
	13		18		
			£44.65		
	12	11	10		
	£125.23		9		
			8		
			£57.48		
			7		
			£100.25		
1	2	3	4	5	6
		£32.12			

Price	Round up/down	Answer
£34.10	Round down to the nearest 10.	
£198.24	Round up to the nearest 100.	
£47.76	Round up to the nearest 10.	
£136.14	Round down to the nearest 100.	
£79.99	Round up to the nearest 10.	
£210.74	Round down to the nearest 100.	
£309.50	Round up to the nearest 10.	
£223.38	Round down to the nearest 10.	
£89.99	Round up to the nearest 100.	

Price	Round up/down	Answer
£34.10	Round down to the nearest 10.	£30.00
£198.24	Round up to the nearest 100.	£200.00
£47.76	Round up to the nearest 10.	£50.00
£136.14	Round down to the nearest 100.	£100.00
£79.99	Round up to the nearest 10.	£80.00
£210.74	Round down to the nearest 100.	£200.00
£309.50	Round up to the nearest 10.	£310.00
£223.38	Round down to the nearest 10.	£220.00
£89.99	Round up to the nearest 100.	£100.00

Bill 1

Drinks - £14.95
Starters - £10.50
Main meals - £17.42
Desserts - £12.99

TOTAL:**Bill 2**

Drinks - £13.05
Starters - £15.30
Main meals - £10.78
Desserts - £11.43

TOTAL:**Bill 3**

Drinks - £15.12
Starters - £14.68
Main meals - £16.27
Desserts - £12.95

TOTAL:**Bill 4**

Drinks - £12.20
Starters - £17.60
Main meals - £12.27
Desserts - £15.40

TOTAL:**Bill 5**

Drinks - £11.55
Starters - £14.97
Main meals - £19.46
Desserts - £16.45

TOTAL:**Bill 6**

Drinks - £15.23
Starters - £12.64
Main meals - £11.99
Desserts - £17.49

TOTAL:

Bill 1

Drinks - £14.95
Starters - £10.50
Main meals - £17.42
Desserts - £12.99

TOTAL: £55.86

Bill 2

Drinks - £13.05
Starters - £15.30
Main meals - £10.78
Desserts - £11.43

TOTAL: £50.56

Bill 3

Drinks - £15.12
Starters - £14.68
Main meals - £16.27
Desserts - £12.95

TOTAL: £59.02

Bill 4

Drinks - £12.20
Starters - £17.60
Main meals - £12.27
Desserts - £15.40

TOTAL: £57.47

Bill 5

Drinks - £11.55
Starters - £14.97
Main meals - £19.46
Desserts - £16.45

TOTAL: £62.43

Bill 6

Drinks - £15.23
Starters - £12.64
Main meals - £11.99
Desserts - £17.49

TOTAL: £57.35