

## Puzzle

### Alphabet challenge

*Puzzles are great for developing mathematical logic skills, as well as training us to be resilient if a solution proves tricky to find...!*

**AIMS:** Use number skills to solve some addition problems

**You will need:** paper and pencil

This is a special alphabet grid. It gives each vowel a value of 10p and values of 2p, 3p, 5p, 7p and 8p for consonants.

10p	8p	7p	5p	3p	2p
A	B	C	D		
E	F	G	H		
I	J	K	L	M	N
O	P	Q	R	S	T
U	V	W	X	Y	Z

#### Getting started:

Write your **first and last names**. Note the **cost** of each letter.

Find the **total cost** of your name.

Repeat this for other members of your family.

Whose name is worth the most? Whose name is worth the least?

#### Some strategies for adding several small numbers

- The vowels are all worth 10p which can be added using place value.
- Look for pairs that total 10p, e.g. P and T or C and M.
- Use doubles!
- Start with the larger number and count on in 1s, or by 'bridging' a multiple of 10p.
- Write the names clearly. Cross off each letter as it is counted.
- Check your answers by adding in a different order.

### Puzzle 1

Whose name is worth the most?

**Sheriff Woody**

**Buzz Lightyear**

**Bo Peep**

**Mr. Potato Head**

**Slinky Dog**



### Puzzle 2

How much is **David Beckham's** name worth?  
Now find one celebrity with a **cheaper** and  
one with a more **expensive** name!

### Puzzle 3

Find a name – it can be an imaginary one! –  
that is worth exactly £1 or 100p.

### Pangram Challenge

**The quick brown fox jumps over the lazy dog**

This sentence is a 'pangram' - it contains every letter of the alphabet!  
Use the table to find the total cost of this sentence.

## Answers

### Puzzle 1

Sheriff Woody 84p and is worth the most money.

Buzz Lightyear 79p

Bo Peep 54p

Mr. Potato Head 80p

Slinky Dog 52p

### Puzzle 2

David Beckham 88p

### Pangram Challenge

The quick brown fox jumps over the lazy dog £2.27 or 227p