Money Matters

Coin Calculations

What is the largest amount you could make using 6 of these coins?

Can you give your answer in pounds and in pence?

The largest amount you could make using 6 coins is £2.45 or 245p.

Coin Calculations

What is the smallest amount you could make using 7 of these coins?

Can you give your answer in pounds and in pence?

The smallest amount you could make using 7 coins is £1.14 or 114p.

Coin Calculations

Can you use 4 coins to make an amount that has a 2 in the tenths place when expressed in pounds?

There are lots of ways you could use 4 coins to make an amount that has a 2 in the tenths place when expressed in pounds.

This solution gives £3.22.

Coin Calculations

Can you use 4 coins to make an amount that has a 2 in the tenths place when expressed in pounds?

Another solution could be £1.23.

Charity Collection

Faye and Brandon work for a charity called The Twinkl Animal Trust.
They collect donations of money from people, and use these donations to care for abandoned animals.

They need to round the amounts of money to different values, order the amounts of money collected and compare the amounts donated.

Charity Collection

Faye collected a donation of £17.36 from Class 5 at City School.
She needs to round this to the nearest £10.

Let's look at how she can do this.

Charity Collection

Faye collected a donation of £17.36 from Class 5 at City School.
She needs to round this to the nearest £10.

We are rounding 17.36 to the nearest 10.
Firstly, let's identify the tens numbers either side of 17.36.

| 10 | | 17.36 | 20 |

Charity Collection

Faye collected a donation of £17.36 from Class 5 at City School.
She needs to round this to the nearest £10.

In this case, the ones digit is a 7, so we should round up to 20.

10   17.36   20

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

First we need to know how much each business collected.

Cafe

Greengrocers

Bakers

Butchers
£23.75

Pharmacy
£35.27

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

We will look at the café's donation first.
How much did the café collect for the Twinkl Animal Trust?

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

£14.42

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

Now can you work out the donation made by the greengrocers?

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

£27.56

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

Lastly, we need to find out how much was collected by the bakers.

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

£23.55

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

Now that we know how much each business donated to the Twinkl Animal Trust, we can put the amounts in order.

Butchers	Pharmacy	Café	Greengrocers	Bakers
£23.75	£35.27	£14.42	£27.56	£23.55

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

All the donations have tens digits. We can see the highest tens digit is the 3 in the £35.27 collected by the pharmacy. This is the largest amount.

| Pharmacy £35.27 | Pharmacy £35.27 | Café £14.42 | Greengrocers £27.56 | Bakers £23.55 |

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

The butchers, the greengrocers and the bakers all collected amounts of money with 2 in the tens place. This means we need to compare the ones digits.

Pharmacy	Butchers	Café	Greengrocers	Bakers
£35.27	£23.75	£14.42	£27.56	£23.55

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

The greengrocers donated an amount with a seven in the ones place, so this is the next largest.

| Pharmacy £35.27 | Greengrocers £27.56 | Café £14.42 | Greengrocers £27.56 | Bakers £23.55 |

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

The butchers and bakers collected amounts with a 3 in the ones place,
so we need to move across to look at the digits in the tenths places.

Pharmacy	Greengrocers	Café	Butchers	Bakers
£35.27	£27.56	£14.42	£23.75	£23.55

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

The butchers collected an amount with a 7 in the tenths place,
so this is the next largest amount.

| Pharmacy £35.27 | Greengrocers £27.56 | Butchers £23.75 | Butchers £23.75 | Bakers £23.55 |

Dealing with Donations

Brandon collected several donations from local businesses.
He wants to put the amounts he collected in order.

The bakers collected the next largest amount.

| Pharmacy £35.27 | Greengrocers £27.56 | Butchers £23.75 | Bakers £23.55 | Bakers £23.55 |

Dealing with Donations

Brandon collected several donations from local businesses.
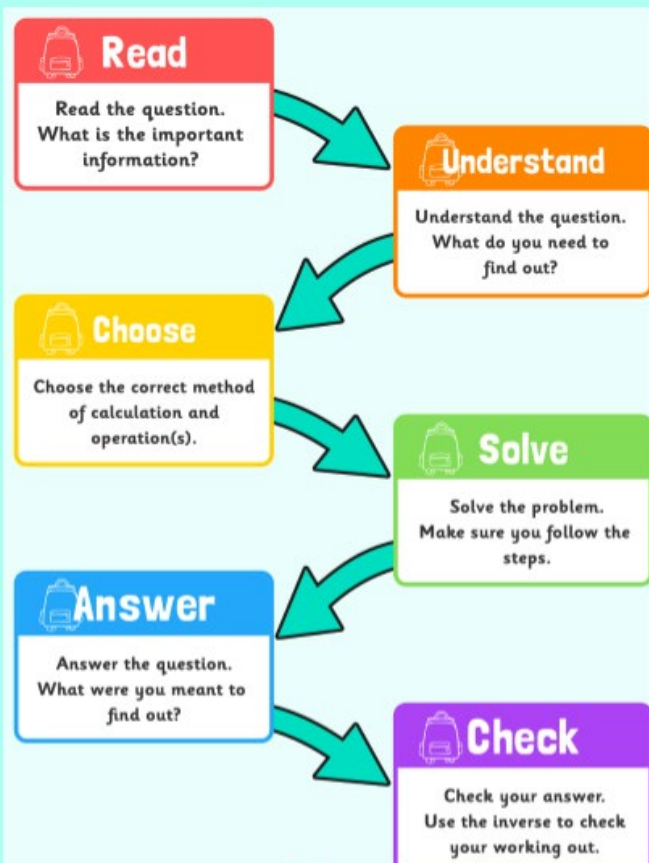He wants to put the amounts he collected in order.

We have now ordered the donations from largest to smallest.

| Pharmacy £35.27 | Greengrocers £27.56 | Butchers £23.75 | Bakers £23.55 | Café £14.42 |

Largest ⟶ Smallest

Solving Money Problems

Problem Solving Flow Chart

Read
Read the question. What is the important information?

Understand
Understand the question. What do you need to find out?

Choose
Choose the correct method of calculation and operation(s).

Solve
Solve the problem. Make sure you follow the steps.

Answer
Answer the question. What were you meant to find out?

Check
Check your answer. Use the inverse to check your working out.

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When solving word problems remember: RUCSAC

Read the question carefully before you begin.

I buy a pen for £1.70 and a notepad for £3.20.
How much have I spent altogether?

How much change will I get from £5?

Underline the important words and numbers to help you!

Decide which operation you are going to use.

£1.70 and £3.20 altogether

$$1.70 + 3.20 = £4.90$$

Next we need to calculate how much change is left from £5:

$$5.00 - 4.90 = £0.10 \text{ or } 10p$$

Let's try another!

I buy three cakes for £1.86 each. How much have I spent altogether?

I pay with a £10 note. How much change do I get?

First we need to calculate the cost of three cakes:
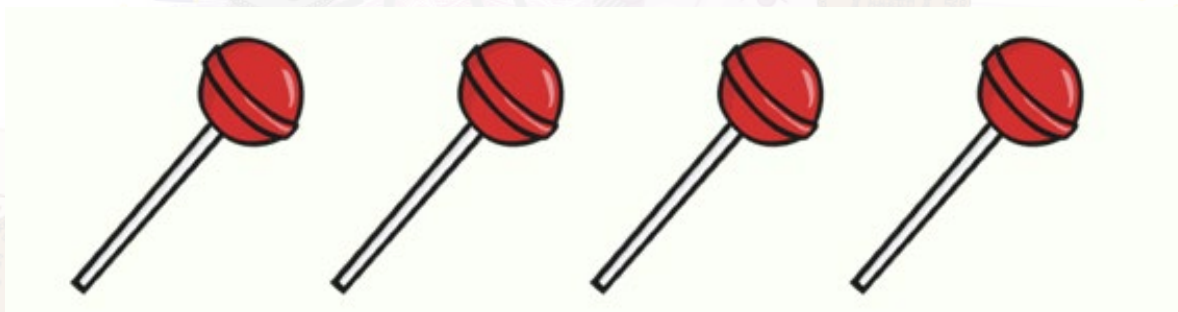
$$£1.86 \text{ x } 3 = £5.58$$

Next we need to calculate how much change is left from £10:

$$10.00 - 5.58 = 4.42$$

Finally, we need to convert the amount to pounds or pence (depending on what the question asks us) and write the answer to the problem:

They get £4.42 change.

A pack of four lolly pops costs £1.40. How many pence does one lolly pop cost?

First, we need to calculate the cost of one lolly. To do this we need to divide £1.40 by 4:

$$£1.40 \div 4 = £0.35$$

Next, we need to convert the amount to pence by multiplying by 100:

$$0.35 \text{ x } 100 = 35p$$

Finally, we need to write the answer to the problem:

One lolly pop costs 35p.