

Year 5 Problems Summer 2 Week 6

Objective:

- Divide numbers up to 4-digits by one-digit numbers using the formal written method of short division and interpret remainders appropriately for the context
- Solve problems involving all four operations, including any combination of these.

Adam posts three small parcels.

The postage costs the same for each parcel.

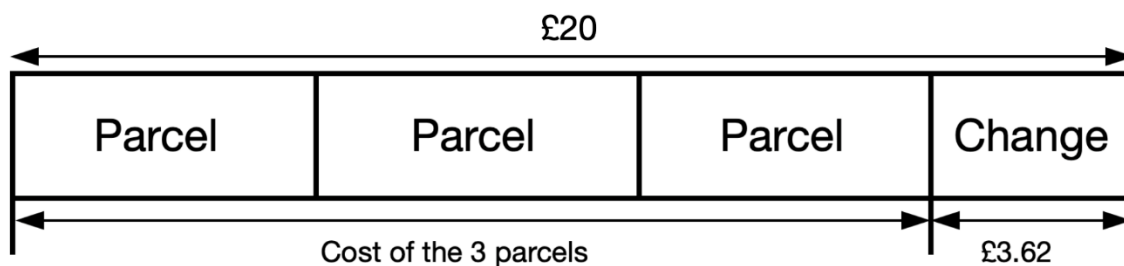
He pays with a £20 note.

His change is £3.62

What is the cost of posting one parcel?

Model answer

We know Adam posts three small parcels, that he pays with a £20 note and he gets change of £3.62. Drawing a bar model could help us see the problem more clearly.



I can see now that I need to subtract £3.62 from £20 to find out how much he pays for posting the three parcels.

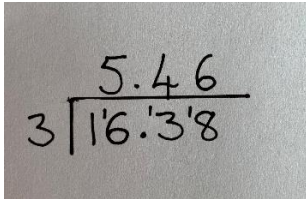
I need to decide whether to use a column method, a mental method, or some jottings. I could use some jottings here if I partitioned the £3.62 and then subtracted:

$$£20 - £3 = £17$$

$$£17 - 62p = £16.38$$

This answer seems reasonable.

Now I know that the cost of three parcels was £16.38 I need to calculate the cost of one parcel. To do this I need to divide £16.38 by 3.


$$\begin{array}{r} 5.46 \\ 3 \overline{)16.38} \end{array}$$

I can check this by using the inverse operation:

$$5.46 \times 3 = 16.38$$

I need to go back to my problem now and make sure I answer it properly.

The answer to the problem is that the cost of posting one parcel is £5.46.

Now try these problems.

Adam posts three small parcels.

The postage costs the same for each parcel.

He pays with a £20 note.

His change is £8.90

What is the cost of posting one parcel?

Space for working

Adam posts three small parcels.

The postage costs the same for each parcel.

He pays with a £20 note.

His change is £5.78

What is the cost of posting one parcel?

Space for working

Answers:

- The cost of posting one parcel is £3.70.
- The cost of posting one parcel is £4.74.