



Greater Depth Challenge:

Can you make up a word problem starting with these numbers: **20786** and **4572**?

Your problem must contain both addition and subtraction steps.



Greater Depth Challenge:

If 90,000 is my answer, what could my problem have been?

Choose your own units of measurement and steps.

Albert Square



36 people live in the eight houses in Albert Square. Each house has a different number of people living in it. Each line of three houses has 15 people living in it. How many people live in each house?

Greater Depth Challenge:

A pupil worked out this problem:

$$1.42 + 1.08 + 1.11 = 3.61$$

What method do you think they used to work this out?

Was there more than one way?
Which way would you choose and why?

Greater Depth Challenge:

The price for an adult on the train London to Brighton is £9.90 one way and £16.70 return. A child is £5.15 one way and £8.35 return.

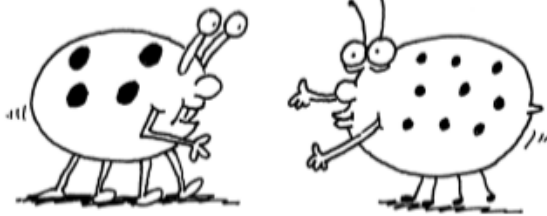
Family A has 3 adults and 1 child.

Family B has 2 adults and 6 children.

Amy says "Obviously, Family A will pay more because adults cost more than children."

Do you agree with her? Why/ why not?

Zids and Zods



Zids have 4 spots.

Zods have 9 spots.

Altogether some Zids and Zods have 48 spots.

How many Zids are there?

How many Zods?

What if Zids have 5 spots, Zods have 7 spots,
and there are 140 spots altogether?

Find as many solutions as you can.

ANSWERS -Hot



Greater Depth Challenge:

Can you make up a word problem starting with these numbers: 20786 and 4572?

Your problem must contain both addition and subtraction steps.

Make sure word problem starts with given number and have both addition and subtraction steps.



Greater Depth Challenge:

If 90,000 is my answer, what could my problem have been?

Choose your own units of measurement and steps.

Ensure 90,000 is the answer.

Must use a unit of measure.

Encourage them to have 3 or 4 steps.

Albert Square



36 people live in the eight houses in Albert Square. Each house has a different number of people living in it. Each line of three houses has 15 people living in it. How many people live in each house?

68. Albert Square

For example:



Greater Depth Challenge:

A pupil worked out this problem:

$$1.42 + 1.08 + 1.11 = 3.61$$

What method do you think they used to work this out?

Was there more than one way?

Which way would you choose and why?

Partitioning

$$0.02 + 0.08 + 0.01 = 0.11$$

$$0.4 + 0.0 + 0.1 = 0.5$$

$$1+1+1 = 3$$

Friendly numbers

$$1.42 + 1.08 = 2.5$$

$$2.5 + 1.11$$

Greater Depth Challenge:

The price for an adult on the train London to Brighton is £9.90 one way and £16.70 return. A child is £5.15 one way and £8.35 return.

Family A has 3 adults and 1 child.

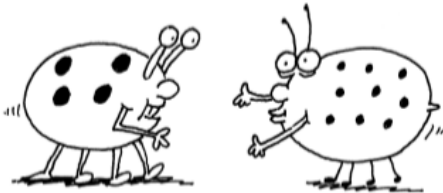
Family B has 2 adults and 6 children.

Amy says "Obviously, Family A will pay more because adults cost more than children."

Do you agree with her? Why/ why not?

No ... because Family B has 5 more children. 2 children cost approximately the same as 1 adult so they will pay more.

Zids and Zods



Zids have 4 spots.

Zods have 9 spots.

Altogether some Zids and Zods have 48 spots.

How many Zids are there?

How many Zods?

What if Zids have 5 spots, Zods have 7 spots, and there are 140 spots altogether?

Find as many solutions as you can.

66. Zids and Zods

There are 2 Zids with 4 spots and 4 Zods with 9 spots.

If Zids have 5 spots and Zods have 7 spots, the possible ways of making 140 are:

- 28 Zids;
- 21 Zids and 5 Zods;
- 14 Zids and 10 Zods;
- 7 Zids and 15 Zods;
- 20 Zods.