

## KS2 Maths 2010 Paper A Questions 17 and 18 answers

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### Answers

#### Question 17

Surprisingly there are only four possible answers:

$$18 + 16 + 6$$

$$18 + 14 + 8$$

$$18 + 12 + 10$$

$$16 + 14 + 10$$

One mark given for any of these. The numbers can be given in any order.

Suggested method:

There are two key points here: firstly each even number is below 20 and secondly all the numbers are different.

I approached this by thinking what was the first even number below 20, which of course is 18. I took 18 from 40, leaving 22. I then thought of two even numbers that made 22. (20 and 18 had already gone) so 16 and 6 would be fine.

#### Question 18

(a)

-75

(b)

-200

The negative numbers have to have the sign in front of the number (75- is not accepted)

One mark for each. If a number 125 less than the answer to (a) is shown one mark can be given as long as (a) was negative.

Suggested method:

Subtracting 125 from 50 is tricky and best done making notes rather than trying to write a standard subtraction method out. The best way is to subtract 50 taking the number to zero. Work out that 75 more needs to be subtracted, making -75.

Subtracting another 125 is easier now that both numbers are negative. Mentally adding 75 and 125 will give 200 so the same process with negative numbers will give -200.

Children find negative numbers quite tricky and this is a question which many will get wrong.

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