

KS2 Maths 2010 Paper A Questions 14 and 15 answers

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Answers

$$14. \left(1\frac{1}{2} + 3\frac{1}{2} \right) \times 2 \quad \text{or} \quad \left(\frac{1}{2} + 3\frac{1}{2} \right) \times 2\frac{1}{2}$$

One mark is awarded for either correct answer. The numbers in brackets may be given in either order.

Do not accept the use of the same card twice. Equivalent fractions or decimals will be accepted.

Suggested method:

Suddenly the questions become harder. A knowledge of what happens when a number is multiplied by a half will give a clue that the most obvious answer involves using the only card without a half on (the 2) as the one outside the brackets. This means that the cards inside the bracket must add up to 5 and is just a matter of finding a pair which add up to 5. The second correct answer given is much harder to work out and it would require a knowledge that ten divided by two and a half is 4 and then finding two cards that add up to 4.

An alternative approach is to convert the fractions into decimals and this does make the multiplication easier. Interestingly a correct decimal answer is accepted for the full mark.

15. 30p

Two marks for the correct answer.

If the answer is incorrect but appropriate working out has been shown, then one mark can be given.

Suggested method:

There are several ways of looking at this. I would halve £1 to get 50p and then work out in my head two prices 10p apart that make 50p: ie 30p and 20p.

But the SAT testers are thinking about written evidence, so another way is to say that if two of each cake cost £1 then one of each cake would cost 50p. As the iced cake is 10p more expensive, take 10p from 50p which is 40p. Divide 40p by 2 is 20p. As the iced cake is 10p more add 10p to 20p which is 30p.

$$£1 \div 2 = 50p; \quad 50p - 10p = 40p; \quad 40p \div 2 = 20p; \quad 20p + 10p = 30p$$

Another working out, using different thought processes might show:

$$10p \times 2 = 20p; \quad £1 - 20p = 80p \quad 80p \div 4 = 20p \quad 20p + 10p = 30p$$

It must be noted here that that many children will do this more as a trial and error process and find an answer without any working out shown.

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