

# Y6 SATs

Help Code : 043

## Combinations

### BOOSTER

**RECOMMENDED!** - mental maths TES resource  
Interactive + Self-Marking [CLICK HERE](#)

Dev has three discs.



Each disc has a 7 on one side and an 8 on the other side.

He spins all the discs and adds the three scores together.

How many **different totals** can he get using the three discs?





2005A KS2 Q9




Here are some digit cards.



Write **all** the **three-digit** numbers, **greater than 500**, that can be made using these cards.

One has been done for you.

 626  
.....  
.....  
.....

2010A KS2 Q15




An iced cake costs 10p more than a plain cake.




Sarah bought two of each cake.

They cost £1 altogether.

What is the cost of an iced cake?



Show your **working**.  
You may get a mark. 

p

2010A KS2 Q17



Three **different** numbers add up to 40

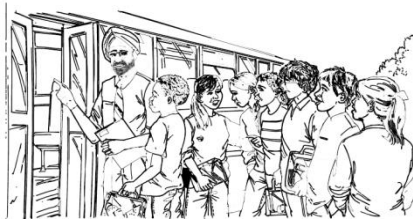
The numbers are all even.

Each number is less than 20

Write what the three **different** numbers could be.

$$\square + \square + \square = 40$$

2003A KS2 Q26



30 children are going on a trip.

It costs £5 including lunch.

Some children take their own packed lunch.

They pay only £3

The 30 children pay a total of £110

How many children are taking their own packed lunch?

Show your working. You may get a mark.

children



2002A KS2 Q18



6 green apples for 75p

10 red apples for 90p

Jason bought some bags of green apples and some bags of red apples.

He spent £4.20

How many bags of each type of apple did he buy?

Show your working. You may get a mark.

bags of green apples

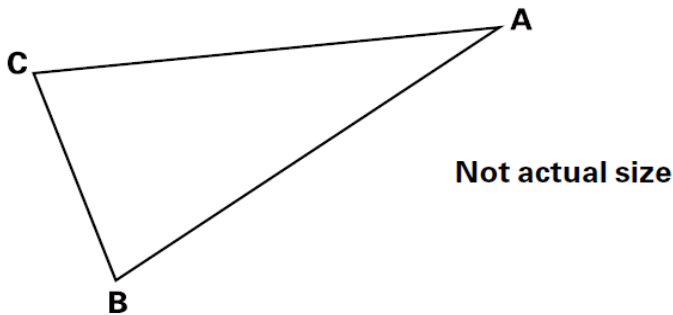
bags of red apples

2001A KS2 Q21



Triangle ABC is isosceles and has a perimeter of 20 centimetres.

Sides AB and AC are each twice as long as BC.



Calculate the length of the side BC.

Do not use a ruler.

Show your working. You may get a mark.

cm

Nika and Hassan bought some bags of apples.

Nika says,

*'I bought more apples than Hassan, but I spent less money.'*

Explain how this is possible.

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.....

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