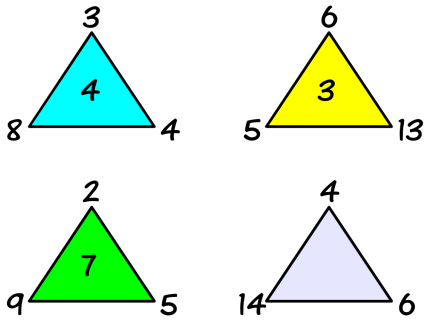


Missing Number

☆ 2

Which number should go in the empty triangle?



Fruitful

☆☆☆ 27

There are three boxes.

One box contains **pears**, one contains **oranges**, and one contains **pears and oranges**.



The labels have fallen off and all have been stuck back on the wrong boxes.

Barry opens one box and without looking in the box takes out one piece of fruit. He looks at the fruit and immediately puts the labels on the the right boxes.

How did he do it?

Petrol Prices

☆☆ 17

Some petrol stations display prices by sticking **segments** together to make numbers.

78.2

What is the **largest** number you can make with 10 **segments**?

0123456789

What is the **largest** you can make with 16 **segments**?

Monty Hall

☆☆☆ 12

You are the winner in a quiz show and can choose a prize from behind 3 locked doors. Behind one door is a new car. Behind the other two doors are goats.



When you have made your choice the host opens one of the other doors to reveal a goat.

Should you **stick** with your choice, or **switch** to the other one? Or does it make no difference?

