Addition: How many ways? Maths worksheets from mathsblog.co.uk

Use three of the numbers below and add them up. How many different sums and answers can you make?





I can see 2 + 2 + 4 = 8, but there are lots more.

You can use each number up to 3 times if you like!

2 4 6 8

What do you notice about all your answers?



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Answers

These mini investigations are all about logical thinking, trying things out, working in a systematic way, recording information and checking that results have not been duplicated. They should also be fun. Most young children will not work in a systematic way, will repeat results and miss results — that is to be expected. But, over time they should begin to develop these skills. This investigation is good at encouraging working in a methodical way, starting with the smallest numbers, or starting with the largest numbers.

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Possibilities:

$$2 + 2 + 2 = 6$$
 $2 + 2 + 4 = 8$ $2 + 2 + 6 = 10$ $2 + 2 + 8 = 12$
 $2 + 4 + 4 = 10$ $2 + 4 + 6 = 12$ $2 + 4 + 8 = 14$
 $2 + 6 + 6 = 14$ $2 + 6 + 8 = 16$
 $2 + 8 + 8 = 18$
 $4 + 4 + 4 = 12$ $4 + 4 + 6 = 14$ $4 + 4 + 8 = 16$
 $4 + 6 + 6 = 16$ $4 + 6 + 8 = 18$
 $4 + 8 + 8 = 20$
 $6 + 6 + 6 = 18$ $6 + 6 + 8 = 20$
 $6 + 8 + 8 = 22$
 $8 + 8 + 8 = 24$

All the answers are even.

(Remember: 2 + 4 + 6 is the same as 6 + 4 + 2)

Lots more like this on the MathSphere, 'It's All Figured Out' worksheet CD www.mathsphere.co.uk

Maths activities for young children at www.urbrainy.com