

Introduction to Doubling & Halving

Looking forward to seeing you all back at school on Monday. In our Friday sessions we will be looking at Doubling & Halving numbers, so here is a bit of an introduction. Take care and see you next week.

Mr Brown

Amount of exercises performed in 30 seconds

Name	Press-Ups	Step Ups	Squat Thrusts	Star Jumps	TOTAL
Jess	11	24	18	35	
Harrison	13	25	20	36	
Elin	10	26	21	32	
Riley	13	27	17	36	
Izzy					
Lucas					
Lucia					
Barney					

Amount of exercises performed in 1 minute

Name	Press-Ups	Step Ups	Squat Thrusts	Star Jumps	TOTAL
Izzy	20	50	42	68	
Lucas	24	48	34	64	
Lucia	22	54	38	62	
Barney	28	46	32	72	
Jess					
Harrison					
Elin					
Riley					

My question to you is: which child did the best overall?

The problem is 4 children did their exercises for 30 seconds and the other 4 did them for 1 minute. So how do we compare?

(I am going to assume that the children who did 30 second exercises would have kept the same pace up if they did the full minute).

So there are 2 ways we can compare all the children.

If we halve the scores of Izzy, Lucas, Barney & Lucia we will get their scores if they had done 30secs like the other children.

How do you halve a number?

Example: What is half of 46?

Partition the 46 into 40 + 6

Half of 40 is 20 and half of 6 is 3.

$20 + 3 = 23$ so half of 46 is 23

The other way we can compare scores is to double the scores of Jess, Harrison, Elin & Riley so we can compare them to the children who did the exercises for the full minute.

How do you double a number?

Example: What is double 42 ?

Partition the 42 into $40 + 2$

Double 40 is 80 and double 2 is 4.

$80 + 4 = 84$ so double 42 is 84.

Now fill in the rest of the 2 tables by doubling & halving Izzy, Lucas, Barney & Lucia's scores and doubling Jess, Harrison, Elin & Riley's scores and then adding up all the totals. Which child performed the best overall? What was the order of the children from 1st to 8th?