Mathematics

Decrease by a Percentage

Mr Millar

Independent task

Order the results in size.

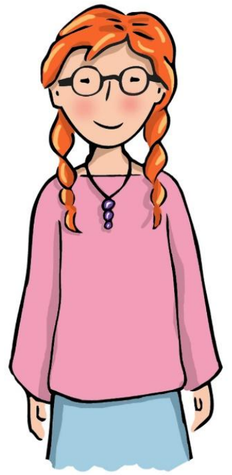
Decrease 300 by 40%	Increase 150 by 30%	Decrease 260 by 20%
Decrease 250 by 15%	Increase 180 by 6%	Decrease 200 by 4%

Explore

Yasmin and Zaki are arguing over what happens when you increase and then decrease a number by the same amount

If I increase a number by 20%, and then decrease it by 20%, I will get the same number I started with.

I disagree, if you try it with 100 you get a lower number than what you started with



Answers

Independent task

Order the results in size.

Decrease 300 by 40%

300 x 0.6 = 180

Increase 150 by 30%

150 x 1.3 = 195

Decrease 260 by 20%

260 x 0.8 = 208

Decrease 250 by 15%

250 x 0.85 = 212.5

Increase 180 by 6%

180 x 1.06 = 190.8

Decrease 200 by 4%

200 x 0.96 = 192

Explore

Yasmin and Zaki are arguing over what happens when you increase and then decrease a number by the same amount

If I increase a number by 20%, and then decrease it by 20%, I will get the same number I started with.

If you increase 100 by 20% you get 120 (100 x 1.2)

If you then decrease 120 by 20% you get 96 (120 x 0.8)

Yasmin is correct!

I disagree, if you try it with 100 you get a lower number than what you started with