Multiply Decimals by Integers

7. A decorator needs to carry some tins of paint from his van. The total weight of the paint is between 25 and 30L.

Tick the calculation below that reveals the correct amount of paint. How many litres of paint is there?



A. 6.573L x 5



B. 6.479L x 4



C. 5.214L x 7

GD

VF
HW/Ext

8. The total weight of a pile of wood is 6.906kg. How many piles would be needed to reach the weights below?

A. 55.248kg

B. 62.154kg

C. 41.436kg



GD

VF
HW/Ext

9. Bradley has received 3 different deliveries of water bottles for the gym. He wants to calculate the total weight of each delivery.

He says,



From heaviest to lightest, the order of the deliveries can be placed in 3 different ways.

Delivery 1



8.562L x 9

Delivery 2



13.506L x 4

Delivery 3



6.753L x 8

Is Bradley correct? Explain how you know.

GD

RPS
HW/Ext

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Homework/Extension
Multiply Decimals by Integers

Developing

1. A. 3; B. 2; C. 1
2. C. £14.88
3. Claire is incorrect. The correct order (from most expensive to the least expensive delivery) should be: Delivery 1, Delivery 3 and Delivery 2. Delivery 1 costs £62.24, Delivery 3 costs £49.80 and Delivery 2 costs £36.48.

Expected

4. A. 2; B. 3; C. 1
5. B. 44.622kg
6. Charles is incorrect. The correct order (from heaviest to lightest) should be: Delivery 1, Delivery 3 and Delivery 2. Delivery 1 weighs 79.62kg, Delivery 3 weighs 64.372kg and Delivery 2 weighs 64.18kg.

Greater Depth

7. B. There are 25.916L of paint.
8. A. 8 piles of wood, B. 9 piles of wood, C. 6 piles of wood
9. Bradley is incorrect. There are only two different ways to place the order of the deliveries from heaviest to smallest. The correct order could be: Delivery 1, Delivery 3 and Delivery 2 or Delivery 1, Delivery 2 and Delivery 3. This is because both Delivery 2 and Delivery 3 weigh the same at 54.024L, however, Delivery 1 is heavier at 77.058L.

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