

ACCESS MATHS

FILTIERACY CHALLENGE

I have ten boxes which I want to pack into crates. Each crate can carry a maximum of 25kg. The trouble is, I only have 3 crates, and the total weight of the boxes is 75kg.

> 15kg, 13kg, 11kg, 10kg, 9kg, 8kg, 4kg, 2kg, 2kg, 1kg

How can I pack the boxes into the crates?



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FILTIERACY CHALLENGE

You have a full bucket containing 24 liters of water.

You also have three empty buckets: One is 5 liters One is 11 liters One is 13 liters

How could you divide the 24 liters of liquid into three equal parts, so that you have three buckets containing 8 liters each? You can only use the buckets! See how many 8 liter buckets can you make?

ILITIERACY CHALLENGE LEVEL 1

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NUMERACY CHALLENGE LEVEL 2

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LEVEL 1

LEVEL 2

Answer:

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Some possible solutions:

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 $\{11,10,4\}$ $\{15,8,2\}$ $\{13,9,2,1\}$

Move	24 liter bucket	13 liter bucket	11 liter bucket	5 liter bucket
Start	24	0	0	0
24 => 13 liter bucket	11	13	0	0
13 => 5 liter bucket	11	8	0	5
13 => 11 liter bucket	11	0	8	5
5 => 13 liter bucket	11	5	8	0
24 => 13 liter bucket	3	13	8	0
13 => 5 liter bucket	3	8	8	5
5 => 24 liter bucket	8	8	8	0