

L8 PROBLEM 3 (6/6 points)

Please help the burglar out! For each of the following metrics, what should be the burglar's first two choices of items? Here's a table of the items from the slides:

item	\$	kg	\$/kg
clock	175	10	17.5
picture	90	9	10
radio	20	4	5
vase	50	2	25
book	10	1	10
computer	200	20	10

For this problem, assume that the maximum weight the burglar can carry is 20.

1. Metric: max value

The burglar should first pick:

computer ▾ computer

and should next pick:

no more space ▾ no more space

2. Metric: min weight

The burglar should first pick:

book ▾ book

and should next pick:

vase ▾ vase

3. Metric: max value/weight ratio

The burglar should first pick:

vase ▾ vase

and should next pick:

clock ▾ clock

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