

GCSE Physics A (Gateway) J249/04 Physics A P5-P8 and P9 (Higher Tier)

Question Set 6

1 (a) A TV has a power rating of 0.2 kW.

Calculate the energy transferred, in kWh, if the TV is switched on for 4 hours.

$$P = \frac{E}{t}$$

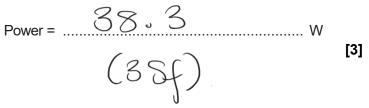
 $0.2 \times 4 = 0.8$

[3]

(b) A different TV works with a 12.0 V battery. It has a current of 3.19 A.

Calculate the power rating of the TV.

P=1V 12×3.19



Total Marks for Question Set 6: 6



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