

AQA – Measurements and their errors – A2 Physics P1

1. June/2021/Paper_7408_01/No. 07

Which is approximately equal to 3 kW h?

[1 mark]

A 3×10^3 J

B 1×10^4 J

C 2×10^5 J

D 1×10^7 J

2. June/2021/Paper_7408_01/No. 08

Which is the shortest distance?

[1 mark]

A 10^{-19} Gm

B 10^{-14} km

C 10^{-4} μ m

D 10^7 fm

3. June/2020/Paper_7408_01/No. 06

Mechanical power

[1 mark]

A is a vector quantity.

B is measured in J.

C has base units of $\text{kg m}^2 \text{s}^{-3}$.

D can be calculated from force \times distance moved.

4. June/2020/Paper_7408_01/No. 07

Water waves of wavelength λ and wave speed v are related by $v = \sqrt{k\lambda}$ where k is a constant.

What is a possible SI unit for k ?

[1 mark]

A m s^{-2}

B m s^{-1}

C $\text{m}^{\frac{3}{2}} \text{s}^{-1}$

D $\text{m}^{\frac{1}{2}} \text{s}^{-1}$

5. June/2020/Paper_7408_01/No. 11

What quantity is measured in kW h?

[1 mark]

A charge

B current

C energy

D power