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$5 \text{ kW} = 5000 \text{ J s}^{-1} = 5000 \times 60 \text{ J min}^{-1} = 300000 \text{ J min}^{-1}$ . In 1 minute 5 Kg of water pass through the shower unit.  $Q = M c \Delta T$ .  $300000 = 5 \times 4180 \times \Delta T$ .  $\Delta T = 14.4 \text{ }^\circ\text{C}$ . The final temperature =  $15 \text{ }^\circ\text{C} + 14.4 \text{ }^\circ\text{C} = 29.4 \text{ }^\circ\text{C}$ . Q 40.

*Walding Physics Worked Solutions*

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[New Century Senior Physics - Chapter 10 Worked Solutions](#)

New Century Physics for Queensland 3E provides depth and complete coverage of the new syllabus in a format that offers extensive support for teachers and their students. This comprehensively updated edition will

be available as a two-volume edition covering Units 1 & 2 (Book 1), and Units 3 & 4 (Book 2).

[New Century Senior Physics - Chapter 14 Worked Solutions](#)

New Century Senior Physics - Worked Solutions (c) Work done (W) = Page 6/26. Download Free Walding Physics Worked Solutionsq.D  $V = \text{energy gained, but as voltage difference} = 200 \text{ V}$  then then energy gained calculates to be  $1.3 \times 10^{-3} \text{ J}$ . Chapter 21 - Worked Solutions - Richard Walding Work function of metal

[New Century Physics for Queensland Units 1&2 3E Student ...](#)

Chapter 28 - Worked Solutions to selected extension questions from the OUP text Senior Physics - Concepts in Context by Walding, Rapkins and Rossiter. My thanks to Peter Finch from St Joseph's College, Gregory Terrace, for these (pdf) solutions. Solutions-Ch28-Finch.pdf. The rest are by me, Richard Walding: Question 43 (a)  $m r = 4 \times 1.007825 = 4.031300$

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WORKED SOLUTIONS. - to to (almost) all questions: Ch 1 Measurement and quantities. Ch 2 Motion in a straight line. Ch 3 Vectors and Graphing. Ch 4 Forces in action. Ch 5 Circular, projectile and periodic motion. Ch 6 Space physics. Ch 7 Forces and fluids.

### **[DOC] New Century Physics Worked Solutions**

Heat and Temperature - Worked Solutions...to selected Complex Reasoning questions from the OUP text "New Century" Senior Physics - Knowledge, Processes and Reasoning by Walding, Rapkins and Rossiter. Q 39. A rating of 5 kW means it gives heat at the rate of 5 kJ per second

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(PDF) Extracts from New Century Senior Physics: Concepts ...

Answer is  $20 \div (157.4 \times 1000 / (60 \times 60)) = 0.46$  s not 0.55 s as stated on p761. Credit to Alyssa Young, Year 11, Caboolture SHS. Chapter 2, p50, Q46(a) about the skateboard. The answer should be a displacement of 225 m (area =  $38 \times 15/2 - 12 \times 10/2 = 285 - 60 = 225$  m).

New Century Senior Physics - Chapter 28

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Using the quadratic formula there are two solutions:  $v_1 = +2.5$  ms<sup>-1</sup> and hence  $v_2 = -0.5$  ms<sup>-1</sup>. This is impossible as the balls would have to had jumped over each other. The second solution:  $v_1 = -3.9$  ms<sup>-1</sup> and hence  $v_2 = +3.8$  ms<sup>-1</sup>. In this case Ball 1 is travelling in the negative direction and hence can't be travelling in the positive direction.

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Physics teacher - Moreton Bay College, Brisbane Adjunct Research Fellow - Griffith University, Brisbane Email: richard@walding.com. Click here for New Century Physics Queensland main page. Here are some videos I made to go with the Unit 1 & 2 book.