

ACTION

Revision Material



<http://corbettmaths.com/concepts/>
Video 352

RESPONSE

Evaluate and round answers to 2 d.p where appropriate

1) 4^5

5) Cube root of 74

9) $\frac{2.45 + 8.7}{3.4 \times 1.2}$

2) 7.4^3

6) $\sqrt[3]{98}$

10) $\frac{2.3^2 \times 7.12}{10.5 - 5.7}$

3) Cube of 7

7) $(11.4 + 3.6)^3$

11) $\frac{\sqrt{293} - (13.8 + 43)}{1.7^3 - 1.1}$

4) $\sqrt{45}$

8) $\sqrt{15} + 11.2^2$

Fluency



Reasoning



Tom drives 910 miles a week for work and his van does 36.4 miles to the gallon. A litre of diesel at his local fuel station costs £1.01 and there are 4.55 litres in a gallon. He has 5 weeks holiday a year where he doesn't drive the van. Assuming the price of diesel stays the same, how much does it cost him in fuel for the year?

Problem Solving



Hannah is thinking about switching her gas supplier from Power House to Fuelsave. She currently uses 660 units per month on average. Should she make the switch? Show your full working to support your answer.

Fuelsave Charges

13.4p for the first 200 units
21.5p for each unit used afterwards

Power House Charges

19p for each unit
5% discount for the first 100 units



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