

Q1 June 2018

25		No (supported)	P1 For a process to calculate the initial or new pressure, eg $(70 + 10) \div (20 + 10)$ (=2.6 to 2.7) or $80 \div 30$ (=2.6 to 2.7) or $70 \div 20$ (=3.5) P1 For a complete process to make a comparison eg. $0.8 \times "3.5"$ (=2.8) OR $\frac{("3.5" - "2.6")}{"3.5"} \times 100$ (=22 to 26) OR $"3.5" \times 0.2$ (=0.7) and $80 \div 30$ (=2.6 to 2.7) OR $\frac{"2.6"}{"3.5"} (\times 100)$ (=0.74 to 0.78 or 74 to 78) A1 for a correct conclusion supported by accurate figures eg 2.8 and 2.6(6...) OR decrease is 24% (or 22% to 26%) OR 0.7 and 2.6 to 2.7 and 3.5 OR 0.7 and 0.9 OR 0.76 (or 0.74 to 0.78) OR 76% (or 74% to 78%)	Accept any value in the range 2.6 to 2.7 if unsupported by working Allow truncation or rounding of figures
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Q2 June 2022

27		No (supported)	P1 for a conversion with litres and gallons, eg $18 \div 4.5$ (= 4) or 8×4.5 (= 36) P1 for a conversion with £ and euros, eg 27×0.85 (= 22.95) or $40.8 \div 0.85$ (= 48) P1 for finding the unit price, eg $27 \div 18$ (= 1.5) OR finding proportionality for fuel eg $(“36” \div 18)$ (= 2) C1 for No with comparative figures, eg No with 20.4 and 22.95 or No with 1.275 and 1.133..	See page at end of mark scheme May compare cost per gallon or cost in euros May be seen in a calculation or given in a description Accept comparative figures rounded or truncated No is implied by eg Wales is cheaper
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Q3 Nov 2018

23	(a)	Ben (supported)	P1 shows how to work interest out for one year eg 2000×0.025 (= 50) or 1600×0.035 (= 56) or 150 or 168 or 2000×1.025 (= 2050) or 1600×1.035 (= 1656) P1 shows compound interest calculation for one account eg $2050 \rightarrow 51.25$ or $2101.25 \rightarrow 52.53$ or $1656 \rightarrow 57.96$ or $1713.96 \rightarrow 59.99$ eg 2000×1.025^3 (= 2153.78) or 1600×1.035^3 (= 1773.95) P1 shows complete compound interest calculation for both accounts eg 2000×1.025^3 (= 2153.78) and 1600×1.035^3 (= 1773.95) OR one interest stated correctly eg 153.78 or 173.95 C1 Ben (shares) supported by 153.78 and 173.95 C1 conclusion (ft) eg no change, shares now 182.5... Acceptable examples no since shares/Ben now 182.5 Still Ben since $182.5 > \text{Ali}$ No; he only gets 8.57 more No; he gets 68.56 instead of 59.98 (3rd yr) No; Ben already gets more interest, he would just get even more Not acceptable examples no shares now 182.5 Still Ben since less than Ali $182.5 > 153.78$ no; he needs 20.17 more	Throughout accept figures ± 1 pence which do not need to be presented in money notation (to 2dp) or with monetary symbols. Award mark for a correct process shown, for which these figures can be taken as implying the process. As above, award mark for both correct processes shown for both accounts, which these figures can be taken as implying the process. Accept an answer of “shares”. Conclusion needs to be supported. ft is from part (a); calculations carried out as part of (b) need to be correct for the comparison to be valid.
	(b)	conclusion		