

Functional Skills Maths Onscreen Mini Test | Level 2

Compound Interest | Mark Scheme

Q1

Question	Process	Mark	Mark Grid	Evidence
	Begins process to work with compound interest	1 or	A	$3500 \div 100 \times 2 (=70)$ OR $(100 + 2) \div 100 (=1.02)$
	Full process to work with compound interest for 3 years	2 or	AB	e.g. $3500 \times '1.02'^3 (=3714.228)$ OR calculates each individual year (3570, 3641.4, 3714.228)
	Process to find amount of interest earned	3 or	ABC	'3714.228' – 3500 (=214.228) oe
	Accurate figure	4	ABCD	214.22 or 214.23
Total marks for question		4		

Q2

Question	Process	Mark	Mark Grid	Evidence
	Begins to work with compound interest	1 or	A	$8000 \times 0.013 (=104)$ OR $8000 \times 1.013 (=8104)$ OR $1.013^3 (=1.0395..)$
	Full process to find the total amount	2 or	AB	$8000 \times 1.013^3 (=8316.07..)$ oe OR $8300 \div 1.013^3 (=7984.53..)$ OR 8104, 8209.352, 8316.07..
	Valid decision with accurate figure	3	ABC	Yes AND (£)8316(.07..) OR Yes AND (£)7984(.53..)
Total marks for question		3		

Q3

Question	Process	Mark	Mark Grid	Evidence
	Begins process to work with compound percentage increase	1 or	A	e.g. $16800 \div 100 \times 6 (=1008)$ OR $(100 + 6) \div 100 (=1.06)$
	Full process to work with percentage increase for 3 years	2 or	AB	e.g. $16800 \times '1.06'^3 (=20009.0688)$ OR 1008, 18876.48, 20009.0688 oe
	Valid decision with accurate figure	3	ABC	Yes AND (£)20009(.0688)
Total marks for question		3		

Q4

Question	Process	Mark	Mark Ref	Evidence
	Begins to work with compound interest	1 or	A	e.g. $(100 + 12.6) \div 100 (=1.126)$
	Full process to find total amount	2 or	AB	e.g. $1500 \times (1.126)^3 (=2141.44..)$
	Accurate figure	3	ABC	£2141.44(2..)
Total marks for question		3		

Q5

Question	Process	Mark	Mark Ref	Evidence
	Begins to work with compound interest	1 or	A	$(100 + 1.5) \div 100 (=1.015)$ OR $125000 \div 100 \times 1.5 (=1875)$
	Full process to find total investment value	2	AB	e.g. $125000 \times (1.015)^2$ $(=128778.125)$ oe
	Process to find difference	1 or	C	'128778.125' – 25000 $(=103778.125)$
	Accurate figure	2	CD	£103778.12(5) or £103778.13 or Allow £103778
Total marks for question		4		

Q6

Question	Process	Mark	Mark Ref	Evidence
	Begins to work with compound interest	1 or	A	$(100 + 2) \div 100 (=1.02)$ OR $(1000 \div 100) \times 2 (=20)$ and $1000 + 20 (=1020)$
	Full process to find total amount	2 or	AB	e.g. $1000 \times (1.02)^3 (=1061.208)$ Allow build up method
	Accurate figure	3	ABC	1061.20(8) or 1061.21
Total marks for question		3		