

Functional Skills Maths Onscreen Mini Test | Level 1

Percentage Increase and Decrease | Mark Scheme

Non-calculator

Q1

Question	Process	Mark	Mark Grid	Evidence
	Begins to work with percentage	1 or	A	$6500 \div 100 \times 20 (=1300)$ oe OR $(100 - 20) \div 100 (=0.8)$ oe
	Full process to find discounted price	2 or	AB	$6500 - '1300' (=5200)$ oe OR $6500 \times '0.8' (=5200)$ oe
	Accurate figure	3	ABC	5200 NB Correct build up method is acceptable
Total marks for question		3		

Q2

Question	Process	Mark	Mark Grid	Evidence
	Process to convert a time	1	A	e.g. $3 \times 60 + 10 (= 190)$ OR $210 \div 60 (= 3.5 \text{ or } 3\text{h}30\text{min})$
	Begins process to work with percentages	1 or	B	e.g. $'190' \div 10 \times 2 (= 38)$ OR $(100 + 20) \div 100 (=1.2)$
	Full process to work with percentages	2 or	BC	e.g. $'190' + '38' (= 228)$ OR $'190' \times '1.2' (= 228)$ OR $210 - '38' (= 172)$
	Valid decision with accurate figure	3	BCD	e.g. No AND 228 (min) OR No AND 3(h) 48 (min) and 3(h) 30 (min) OR No AND 3.8(h) and 3.5(h) OR No AND 172 (min) and 190 (min)
Total marks for question		4		

Calculator

Q3

Question	Process	Mark	Mark Grid	Evidence
	Begins process to find percentage	1 or	B	$75 \div 100 \times 20 (=15)$ oe OR $(100 + 20) \div 100 (=1.2)$
	Process to find increased value	2 or	BC	$75 + '15' (=90)$ oe OR $75 \times '1.2' (=90)$
	Accurate figure	3	BCD	90
Total marks for question				

Q4

Question	Process	Mark	Mark Grid	Evidence
	Process to begin to work with percentage	1 or	A	$450 \times 30 \div 100 (=135)$ oe OR $(100 + 30) \div 100 (=1.3)$ oe
	Full process to work with percentage	2 or	AB	$450 + '135' (=585)$ oe
	Accurate figure	3	ABC	585
	Valid check by reverse calculation	1	D	e.g. $585 - 135 = 450$
Total marks for question		4		

Q5

Question	Process	Mark	Mark Grid	Evidence
Q13	Writes the number of tickets as a number	1	A	24540 May be seen or implied in subsequent calculations
	Begins to work with percentage decrease	1 or	B	e.g. $35 \div 100 \times \{\text{number of tickets}\} (= 8589)$ oe OR $(100 - 35) \div 100 (= 0.65)$ oe
	Full process to find figures to compare	2 or	BC	e.g. $'0.65' \times \{\text{number of tickets}\} (= 15951)$
	Valid decision with accurate figures	3	BCD	e.g. No AND 15951
Total marks for question		4		

Q6

Question	Process	Mark	Mark Grid	Evidence
	Writes figure in digits	1	B	645 000
	Begins process to work with percentage	1 or	C	$\{\text{figure}\} \times 80 \div 100 (=516\,000)$ oe OR $(100 - 80) \div 100 (=0.2)$ oe Allow figure to be a number that includes the digits 6, 4 and 5
	Complete process to work with percentage	2 or	CD	$\{\text{figure}\} - '516\,000' (=129\,000)$ OR $'0.2' \times \{\text{figure}\} (=129\,000)$ oe
	Process to find difference	3 or	CDE	$394\,630 - '129\,000' (=265\,630)$
	Accurate figure	4	CDEF	265 630
Total marks for question				