

Mathematical Skills – Understanding and Using Percentages Level 1 Mark Scheme Sample

Assessors should accept alternative correct method of working other than those detailed in the mark scheme. These should be considered at internal standardisation.				
Question	Curriculum reference	Answer	Notes	Marks
1	1.2	a 35% b 24% c 18%	1 for each correct percentage written in numbers including the % symbol	3
2	1.1	a twenty nine percent b eighty seven percent c thirty three percent	1 for each correct percentage written as words including 'percent'	3
3	1.1 1.2 1.3 1.4	a Tick only under triangle b £58 c 1% or 1 percent d 1 small square shaded	1 for no tick under square 1 for no tick under rectangle 1 for tick under triangle 1 for correct amount and £ sign 1 for correct percentage 1 for either symbol or word 'percent' 1 for shading 1 small square 1 for valid explanation	8
4	1.1 1.3 1.4 2.1 2.2 2.3 2.4	a £8.70 b £87 c Entertainment £43.50 Food £174 d Rent 50% = 20% + 20% + 10% = £174 + £174 + £87 = £435 e 1 + 10 + 5 + 20 + 50 = 86% 100 – 86% = 14%	1 for valid method to calculate % 1 for correct answer 1 for valid method to calculate % 1 for correct answer 1 for valid method for calculating 5% e.g. dividing by 20 or finding 10% by dividing by 10 then halving 1 for correct answer 1 for a different valid method for 20% e.g. dividing by 5 or finding 10% then doubling 1 for correct answer 1 for valid methods using previous answers 1 for correct calculation 1 for correct answer 1 for correct total % from table 1 for subtracting from 100 1 for correct answer	14

5	2.5 3.1 3.2 4.1 4.2	<p>a £1057.50</p> <p>b £2702.50</p> <p>c Pair A $£45 \times 0.75 = £33.75$ in the sale</p> <p>Pair B $£38 \times 0.85 = £32.30$ in the sale</p> <p>Pair B is cheaper by £1.45</p>	<p>1 for multiplying by 45 1 for dividing by 100 1 for correct answer</p> <p>1 for valid method for finding 15% (could be implied) 1 for adding 15% (could be implied) 1 for correct answer</p> <p>1 for valid method 25% discount 1 for correct answer pair A 1 for valid method 15% discount 1 for correct answer pair B 1 for saying pair B cheaper 1 for correct difference in price</p>	12
6	5.1 5.2	<p>a $£235999 \times 10\% = £23,599.90$</p> <p>b $£235999 \times 67\% = £158,119.33$</p>	<p>1 for use of calculator (could be observed) 1 for correct answer</p> <p>1 for use of calculator 1 for correct answer</p>	4

Total marks available: 44 marks

Pass mark: 35 marks