REVISE
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F1.02 — Wages, salaries & payslips

Mark schemes for the F1.02 question pack

Spec 1.8.2 — Unit 1

SOLUTIONS · 2025 SPECIFICATION

Mark schemes for the 6 questions in the corresponding revise.wales question pack (21 marks total). Sources: legacy WJEC GCSE papers, WJEC SAM, and custom-authored mark schemes. Pack layout © revise.wales.

5(a) (Tax at 22%) 0.22 × 15000 or 0.22 × (25000 – 10000) or equivalent	M2	Ignore £ for € throughout M1 for appropriate sight of 25000 – 10000 (= €15000)
(Tax at 35%) 0.35 × 3000 or 0.35 × (28000 – 25000) or equivalent	M2	M1 for 28000 – 25000 (= €3000)
(Total tax due 3300 + 1050 =) 4350 (euros)	A2	CAO A1 for sight of 3300 (euros) or 1050 (euros)
(Tax still owed 4350 – 3600 =) 750 (euros)	B1	FT for positive answers only, 'their derived 4350' – 3600, provided 3300 + ... or ... + 1050 seen, i.e. sum of two amounts with at least one amount correct <u>If no marks, for special cases award one of the following:</u> (0.22 × (28000 – 3600 – 10000) =) (0.22 × (24400 – 10000) =) (0.22 × 14400 =) (€) 3168 — SC2 0.22 × (28000 – 3600 – 10000) or 0.22 × (24400 – 10000) or 0.22 × 14400 — SC1
5(b) 3600 ÷ 1.11 (£) 3243.24	M1 A1	Answer space takes precedence Sight of (£) 3243 or 3243.2(4324....) implies M1

2(a) **Airport** / **Number of passengers (to the nearest million)** Cardiff — **2 000 000** Bristol — 9 000 000 Birmingham — **12 000 000** Exeter — **1 000 000** Leeds-Bradford — 4 000 000 Airport **Cardiff** Bristol ( ) **Birmingham** **Exeter** **Leeds-Bradford**	B1 B1 B1 B3	Answers in the table and pictogram take precedence. Accept the word million used eg 2 million Penalise -1 only for **consistent** use of incorrect place value for all 3 values. Award B3 for all 4 correct entries Award B2 for 3 correct entries Award B1 for 2 correct entries FT 'their values stated in the table' FT implied use of million (i.e. with incorrect place value given in the 1st table but then used as million in the pictogram) If a different symbol that is split into 4 is consistently used, then penalise -1 only. If a different scale used then B0.
2(b)(i) Yes and suitable reason given e.g. 'half of 80 million is 40 million (and 46 086089 is more than 40 million)' '46 million is more than 40 million (which is half of 80 million)' 'Double 46 million is 92 million (which is more than 80 million)' 'because half is 40000000 so Gatwick had more than half' 'because half of 80000000 is forty million (but Chris was correct because it was 46086089 which is more than half)' '46086089 million is more than half of eighty million (as 40000000 is half of it)' 'because 46086089 doubled is greater than 80000000'	E1	Allow yes and 'half of 80 is 40' Do not allow no with a suitable reason e.g. 'No, because half of 80 is 40 and Chris had 46 so he had extra people' 'No, because half of 80 million is 40 million and there was 46 million used in Gatwick'
2(b)(ii) 261 909	B1	
2(c) 2508 × 3 or 2508 + 2508 + 2508 or equivalent 7524 (litres)	M1 A1	For 2508 + 2508 + 2508, allow if no addition sign seen but addition is implied award M1.

4(a) ($\frac{1}{5}$ is \$40, total amount of gift is) 40×5 or $40 \div \frac{1}{5}$	M1	Ignore \$ written as £ or €, etc
($)200	A1	ISW
(Amount gifted to animal charity is ¼ × 200) ($)50	B1	FT ¼ × 'their 200' correctly evaluated, provided • 'their 200' ≠ 40 • 'their 200' ≠ 200 – 40 (= 160) Allow FT 'their 200' = 8 *(see note below)*
(Gift to medical research is) ($) 200 – 40 – 50	M1	FT 'their derived 200' – 40 – 'their 50', provided > 0
($) 110	A1	FT provided both M marks previously awarded *If no marks, award SC1 for* *(40 – ⅕ × 40 – ¼ × 40 = 40 – 8 – 10 =) ($)22*
4(a) <u>Alternative method</u> *(Total amount of gift is) 40 × 5 or* $40 \div \frac{1}{5}$	*M1*	*Ignore \$ written as £ or €, etc*
($)200	*A1*	*ISW*
(Proportion given to medical charity) *(*$1 - \frac{1}{5} - \frac{1}{4} =$ *)* $\frac{11}{20}$ *or (1 – 0.2 – 0.25 =) 0.55* *or (100 – 20 – 25 =) 55 (%)*	*B1*	*Allow for proportion given to children's and animal charity clearly shown as* $\frac{9}{20}$ *, 0.45 or 45 (%)*
(Gift to medical research is) $\frac{11}{20} \times 200$ *or 200 –* $\frac{9}{20} \times 200$	*M1*	*FT 'their incorrectly evaluated* $1 - \frac{1}{5} - \frac{1}{4}$ *' or* *'their incorrectly evaluated* $\frac{1}{5} + \frac{1}{4}$ *as appropriate and 'their derived 200', provided* • *'their 200'* ≠ 40 • *'their 200'* ≠ 200 – 40 (= 160) *Allow FT 'their 200' = 8*
($) 110	*A1*	*FT provided both M marks previously awarded*
4(a) Organisation and communication	OC1	For OC1, candidates will be expected to: • present their response in a structured way • explain to the reader what they are doing at each step of their response • lay out their explanations and working in a way that is clear and logical • write a conclusion that draws together their results and explains what their answer means
Writing	W1	For W1, candidates will be expected to: • show all their working • make few, if any, errors in spelling, punctuation and grammar • use correct mathematical form in their working • use appropriate terminology, units, etc.

4(b) Sight of 30 000 – 10 000 or 20 000	B1	Ignore incorrect units given throughout
(30 000 – 10 000) × 0.22 or 20 000 × 0.22 or equivalent	M1	Any repeated addition method of 10% and 1% must clearly show addition to 22%
($) 4400	A1	CAO. Mark final answer

8(a) ($\frac{1}{5}$ is \$40, total amount of gift is) 40×5 or $40 \div \frac{1}{5}$	M1	Ignore \$ written as £ or €, etc
($)200	A1	ISW
(Amount gifted to animal charity is ¼ × 200) ($)50	B1	FT ¼ × 'their 200' correctly evaluated, provided • 'their 200' ≠ 40 • 'their 200' ≠ 200 – 40 (= 160) Allow FT 'their 200' = 8 *(see note below)*
(Gift to medical research is) ($) 200 – 40 – 50	M1	FT 'their derived 200' – 40 – 'their 50', provided > 0
($) 110	A1	FT provided both M marks previously awarded *If no marks, award SC1 for* *(40 – ⅕ × 40 – ¼ × 40 = 40 – 8 – 10 =) ($)22*
8(a) <u>Alternative method</u> *(Total amount of gift is) 40 × 5 or* $40 \div \frac{1}{5}$	*M1*	*Ignore \$ written as £ or €, etc*
($)200	*A1*	*ISW*
(Proportion given to medical charity) *(1 –* $\frac{1}{5}$ *–* $\frac{1}{4}$ *=)* $\frac{11}{20}$ *or (1 – 0.2 – 0.25 =) 0.55* *or (100 – 20 – 25 =) 55 (%)*	*B1*	*Allow for proportion given to children's and animal charity clearly shown as* $\frac{9}{20}$ *, 0.45 or 45 (%)*
(Gift to medical research is) $\frac{11}{20} \times 200$ *or 200 –* $\frac{9}{20} \times 200$	*M1*	*FT 'their incorrectly evaluated* $1 - \frac{1}{5} - \frac{1}{4}$ *' or 'their incorrectly evaluated* $\frac{1}{5} + \frac{1}{4}$ *as appropriate and 'their derived 200', provided* • *'their 200' ≠ 40* • *'their 200' ≠ 200 – 40 (= 160)* *Allow FT 'their 200' = 8*
($) 110	*A1*	*FT provided both M marks previously awarded*

8(b) Sight of 30 000 – 10 000 or 20 000	B1	Ignore incorrect units given throughout
(30 000 – 10 000) × 0.22 or 20 000 × 0.22 or equivalent	M1	Any repeated addition method of 10% and 1% must clearly show addition to 22%
($) 4400	A1	CAO. Mark final answer

3(a)(i) 45 (years)	B1	
3(a)(ii) 2.06 (metres)	B1	Do not accept 2m 6cm
3(a) (iii) three million (and) one hundred (and) forty-two thousand (dollars)	B1	Ignore spelling and the units given
3(b) Sphere	B1	

3(c) 15 (metres)	B3	Answer space takes precedence Answers and/or workings may be seen on the diagram For B3, allow answers in the inclusive range 14.4 (metres) to 15.6 (metres) Award B2 for any one of the following: • Scale factor of 2 • Scale factor of ½ • (×) 2 • (×) 200 • (28 ÷ 14 =) 2 • 28 ÷ 2 = 14 (embedded scale factor of 2) • 14 × 2 = 28 (embedded scale factor of 2) • Implied scale factor of 2 e.g. double 'their 7.5' • 1(cm) is 2(m) or equivalent Do not award B2 if 28 × 2 = 56 alone is seen as this does not indicate a scale factor of 2 Award B1 for any one of the following: • One correct measurement seen or implied. • 7.5 (cm) ± 2 mm • 14 (cm) ± 2 mm • Allow 7.5 m • Allow 14 m
3(d)(i) No and a valid reason e.g. 'No, because the angle is more than 90(°)' 'No, as the angle is bigger than a right angle' No, acute is less than 90 (°)' 'No, angle is obtuse' 'No, it's obtuse'	E1	Reasons may be indicated on the diagram. Allow 'No, angle is too big to be an acute angle' 'No, angle is larger than an acute angle' No, angle is greater than an acute angle' 'No, an acute angle is smaller', Do not allow 'No, because an acute angle is 70(°)' 'No, because it's not an acute angle' 'No because an acute angle is not 157'
3(d)(ii) Correct line drawn from Bryn	B2	Use of overlay Award B1 for either • 157° (± 2°) drawn at Bryn • 7cm (± 2mm) line drawn from Bryn No marks awarded for a line drawn at Alex

8. Appropriate sight of (30 000 – 10 000 =) 20 000 (dollars) or (36 000 – 30 000 =) 6000 (dollars)	B1	Ignore £ or other currency for dollars May be implied in further working
(Tax at 10%) 0.10 × (30 000 – 10 000) or 0.10 × 20 000 or equivalent	M1	FT use of 'their (30 000 – 10 000)' from an error in subtraction
2000 (dollars)	A1	CAO
(Tax at 25%) 0.25 × 6000 or or 0.25 × (36 000 – 30 000) or equivalent	M1	FT use of 'their (36 000 – 30 000)' from an error in subtraction
1500 (dollars)	A1	CAO
(Total tax due) 3500 (dollars)	B1	ISW FT 'their 2000' + 'their 1500' provided both M1 marks previously awarded