

WRITING AND SIMPLIFYING RATIO

Pearson Edexcel - Thursday 6 June 2019 - Paper 2 (Calculator) Foundation Tier

1.

| | | | | |
|----|-------|----|-----|--|
| 14 | 2 : 1 | B1 | cao | |
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Pearson Edexcel - Tuesday 6 November 2018 - Paper 1 (Non-Calculator) Foundation Tier

2.

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|----|-----------|-------|--|---|
| 13 | 4 : 1 : 2 | M1 | for start to express the statements as a ratio eg 4 : 1, 1 : 4, 1 : 2 or 2 : 1 with clear and correct link to Azmol, Ryan, Kim OR as algebraic expressions, two of 4x, x and 2x eg 4x : x, 1x : 4x, 1x : 2x or 2x : 1x with clear and correct link to Azmol, Ryan, Kim | Allow any equivalent ratio, integers only May be seen as part of an incorrect answer. May be seen as integer multiples of these algebraic expressions. Any letter may be used. |
| | | A1 | 4 : 1 : 2 oe | Accept 8 : 2 : 4 or equivalent ratios involving integers |
| | | (SCB1 | 3 integer numbers in correct ratio but no ratio notation, eg 4, 1, 2 or 20, 5, 10) | |

Pearson Edexcel - Monday 12 November 2018 - Paper 3 (Calculator) Foundation Tier

3.

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|----|------|----|--|--------------------------|
| 16 | 30:1 | M1 | for stating 450 : 15 oe or 450 ÷ 15 (=30) oe or 1 : 30 | 90 : 3 |
| | | A1 | cao | Ignore units throughout. |

Pearson Edexcel - Thursday 24 May 2018 - Paper 1 (Non-Calculator) Foundation Tier

4.

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|----|-------|----|---|---|
| 17 | 1 : 3 | M1 | for $\frac{1}{4} : \frac{3}{4}$ oe OR for any correct un-simplified ratio, eg 25 : 75 | |
| | | A1 | cao SC: B1 for an answer of 3 : 1 or 1 : $\frac{1}{3}$ if M0 scored | Ignore 'units' such as 1 nuts : 3 no nuts 1 : 3n gets M1A0 |

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5.

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|----|--|------------|----|---|
| 11 | | 5 : 2 : 10 | P1 | for process to calculate total for quiz or total of membership fees eg. $13 \times 5 + 35$ (=100), 25×20 (=500) |
| | | | P1 | for complete process to write (correct) figures as a ratio, eg 250 : 100 : 500 oe in any order (condone inclusion of units or words) |
| | | | A1 | cao |

Pearson Edexcel – Specimen 2 - Paper 3 (Calculator) Foundation Tier

6.

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|----|-----|--|-----------------|-----------------------|
| 15 | (a) | | $\frac{20}{35}$ | B1 $\frac{20}{35}$ oe |
| | (b) | | 3 : 4 | M1 15 : 20 A1 cao |

Pearson Edexcel – Specimen 1 - Paper 1 (Non-Calculator) Foundation Tier

7.

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|----|--|--|-------|--|
| 12 | | | 1 : 3 | M1 for stating a ratio eg 28 : 84 oe, or 3:1 A1 cao |
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Pearson Edexcel – Specimen 1 - Paper 3 (Calculator) Foundation Tier

8.

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|----|-----|--|---------------|--|
| 18 | (a) | | 1:1.5 | M1 for 40 : (100 – 40) oe or 1.5:1 A1 cao |
| | (b) | | $\frac{3}{4}$ | B1 |

OCR Thursday 05 November 2020- Morning (Non-Calculator) Foundation Tier

9.

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|---|-----|--|-------|---|--|
| 9 | (a) | | 4 : 5 | 1 | |
| 9 | (b) | | 1 : 3 | 3 | B1 for 0.6 [kg] or 1800 [g] seen M1 for correct partial simplification of the given ratio or <i>their</i> first ratio |

OCR Thursday 07 November 2019- Morning (Non-Calculator) Foundation Tier

10.

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|----|-----|------|--------------------|---|---|
| 14 | (a) | (i) | 4 : 5 | 1 | Accept 1 : 1.25 or 1 : $\frac{5}{4}$ or 0.8 : 1 or $\frac{4}{5}$: 1 |
| 14 | (a) | (ii) | 1 : 7 final answer | 3 | B1 for 2100 [m] or 0.3[] seen M1 for correct partial simplification of <i>their</i> ratio A correct partially simplified ratio in the same units implies B1 M1 eg 100 : 700 |
| 14 | (b) | | 2 nfw | 3 | B1 for $\sin 30 = \frac{1}{2}$ oe B1 for $\tan 45 = 1$ B marks can be implied if seen on the correct side of a ratio |

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11.

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|---|---|-----------------------|---|--|--|
| 2 | a | 3 : 7 | 1 | | Condone 3:7 written in one of the answer spaces |
| | b | 2.5 or $2\frac{1}{2}$ | 2 | B1 for 2:5 or 4:10 or 10:25 or 1:2.5 or 0.4:1 or 50 ÷ 20 seen | For B1 ratio must have colon and not "to" or comma |

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12.

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|---|-----|--------|---|--|--|
| 5 | (a) | 1 : 19 | 1 | | |
| | (b) | 12 | 2 | M1 for $8 \div 2$ soi by 4 or 8×1.5 oe | |

OCR Tuesday 12 June 2018– Morning (Calculator) Foundation Tier

13.

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|----|--|---------|---|---|---|
| 18 | | 18 nfww | 4 | <p>B1 for [green] 36 or ratio(s) equivalent to 5 : 9 : 36</p> <p>AND</p> <p>M2 for $\frac{\text{their } 9}{\text{their } (5 + 9 + 36)} \times 100$ or</p> <p>M1 for <i>their</i> (5 + 9 + 36) soi</p> | <p>For B1 accept 5 : 36 or 9: 36 or ratio(s) involving a common term for blue eg 10 : 18 and 18 : 72 eg 1 : 1.8 : 7.2 eg $\frac{5}{9} : 1$ [: 4] (decimals should be accurate rot to 3 figs)</p> <p><i>Their</i> (5 + 9 + 36) must come from a ratio (or ratios) with a common term. 1 + 4 + 5 + 9 = 19 followed by $\frac{5}{19}$ scores 0.</p> |
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