

Outcome 4 - Proportional Division

Bronze example

Examples... 40 : 200

Share 240 in the ratio of 1 : 5.

6 shares = 240 (1 + 5 = 6!)

1 share = $240 \div 6 = 40$

5 shares = $40 \times 5 = 200$

Silver example

Examples... 140 : 210

Share 350 in the ratio of 2 : 3.

5 shares = 350 (2 + 3 = 5!)

1 share = $350 \div 5 = 70$

2 shares = $2 \times 70 = 140$

3 shares = $3 \times 70 = 210$

Gold example

Examples... 80 : 160 : 240

Share 480 in the ratio of 1 : 2 : 3.

6 shares = 480 (1 + 2 + 3 = 6!)

1 share = $480 \div 6 = 80$

2 shares = $2 \times 80 = 160$

3 shares = $3 \times 80 = 240$

Bronze Questions

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|---|--|
|  1 Divide 27 in the ratio of 1 : 8. |  2 Share 16 in the ratio of 1 : 3. |
|  3 Share 48 in the ratio of 1 : 7. |  4 Divide 18 in the ratio of 1 : 5. |
|  5 Divide 540 in the ratio of 1 : 5. |  6 Share 560 in the ratio of 1 : 7. |
|  7 Divide 240 in the ratio of 1 : 3. |  8 Share 350 in the ratio of 1 : 6. |
|  9 Share 5000 in the ratio of 1 : 9. |  10 Divide 3300 in the ratio of 1 : 2 |

Silver Questions

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|---|---|
|  1 Divide 25 in the ratio of 2 : 3. |  2 Share 27 in the ratio of 4 : 5. |
|  3 Share 80 in the ratio of 3 : 7. |  4 Divide 77 in the ratio of 2 : 9. |
|  5 Divide 450 in the ratio of 3 : 2. |  6 Share 540 in the ratio of 2 : 7. |
|  7 Divide 840 in the ratio of 5 : 7. |  8 Share 440 in the ratio of 6 : 5. |
|  9 Share 8000 in the ratio of 7 : 3. |  10 Divide 2400 in the ratio of 5 : 3. |

Gold Questions

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|--|--|
|  1 Divide 60 in the ratio of 1 : 2 : 3. |  2 Share 54 in the ratio of 2 : 3 : 4. |
|  3 Share 66 in the ratio of 2 : 4 : 5 |  4 Divide 64 in the ratio of 1 : 3 : 4. |
|  5 Divide 600 in the ratio of 5 : 2 : 3. |  6 Share 720 in the ratio of 4 : 1 : 3. |
|  7 Divide 2700 in the ratio of 2 : 4 : 3. |  8 Share 9000 in the ratio of 7 : 2 : 1. |
|  9 Share 900 in the ratio of 7 : 2 : 6. |  10 Divide 5000 in the ratio of 4 : 5 : 11. |

Bronze Answers

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|---------------|-----------------|
| 1. 3 : 24 | 2. 4 : 12 |
| 3. 6 : 42 | 4. 3 : 15 |
| 5. 90 : 450 | 6. 70 : 490 |
| 7. 60 : 180 | 8. 50 : 300 |
| 9. 500 : 4500 | 10. 1100 : 2200 |

Silver Answers

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|----------------|----------------|
| 1. 10 : 15 | 2. 12 : 15 |
| 3. 24 : 56 | 4. 14 : 63 |
| 5. 270 : 180 | 6. 120 : 420 |
| 7. 350 : 490 | 8. 240 : 200 |
| 9. 5600 : 2400 | 10. 1500 : 900 |

Gold Answers

- | | |
|---------------------|------------------------|
| 1. 10 : 20 : 30 | 2. 12 : 18 : 24 |
| 3. 12 : 24 : 30 | 4. 8 : 24 : 32 |
| 5. 300 : 120 : 180 | 6. 360 : 90 : 270 |
| 7. 600 : 1200 : 900 | 8. 6300 : 1800 : 900 |
| 9. 420 : 120 : 360 | 10. 1000 : 1250 : 2750 |