

Outcome 2 - Proportion Division

Bronze example

Examples... **140 : 210**

Share 350 in the ratio of 2 : 3.

Total number of shares = 5

Each share = $350 \div 5 = 70$

2 shares = $2 \times 70 = 140$

3 shares = $3 \times 70 = 210$

Silver example

Examples... **80 : 160 : 240**

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

Total number of shares = 6

1 share = $480 \div 6 = 80$

2 shares = $2 \times 80 = 160$

3 shares = $3 \times 80 = 240$

Gold example

Examples...

A fruit and veg stall was set up in a market. The ratio of tomatoes : cucumbers : onions on sale was 8 : 3 : 2.

If there were 180 onions altogether how many vegetables in total were on sale?

2 shares = 180
1 share = $180 \div 2 = 90$
8 shares = $8 \times 90 = 720$
3 shares = $3 \times 90 = 270$

Total number of vegetables for sale = $720 + 270 + 180 = 1170$

Bronze Questions

- 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.

Silver Questions

- 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.

Gold Questions

- 1 Granny Gold shared some pocket money between her three grand daughters Cari : Georgia : Abbey in the ratio 3 : 5 : 2. Cari received £12. How much did Georgia and Abbey both receive?



- 2 A band share royalties from a hit record.

The money was shared between Paul : John : George : Ringo in the ratio of 9 : 10 : 7 : 2.



If John received £15 000, how much did George earn?

- 3 A snack stall was set up at a local fayre. The ratio of candy floss : pretzels : popcorn on sale was 8 : 3 : 7.

If there were 54 pretzels altogether how many items in total were on sale?



Bronze Answers

- | | |
|----------------|----------------|
| 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 |

Silver 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 |

Gold Answers

1. Georgia = £20, Abbey = £8
2. George = £10 500
3. $144 + 54 + 126 = 324$ items