

Ratio – 1 part given

1. Claire and John share some money in the ratio 3:2. Claire receives £18 – how much does John receive?
2. Claire and John share some money in the ratio 6:4. Claire receives £18 – how much does John receive?
3. Claire and John share some money in the ratio 3:2. Claire receives £36 – how much does John receive?
4. Sandy and Mark share some sweets in the ratio 1:4. Mark receives 48 sweets. How many does Sandy receive?
5. Sandy and Mark share some sweets in the ratio 1:9. Mark receives 18 sweets. How many does Sandy receive?
6. George and Joe share some sweets in the ratio 1:9. Joe receives 18 sweets. How many sweets are shared in total?
7. George and Joe share some sweets in the ratio 7:9. Joe receives 18 sweets. How sweets are shared in total?
8. Huda, Nicole and Bethan share some sweets in the ratio 7:8:9. Huda receives 14 sweets. How many sweets do Nicole and Bethan each receive?
9. A piece of wood is split into three pieces into the ratio 7:8:9. The smallest piece of wood is 21cm. Work out the length of the other two pieces.
10. A piece of wood is split into three pieces into the ratio 3:6:5. The smallest piece of wood is 21m. Work out the total length of the wood.
11. Three angles are in the ratio 3:6:5. The largest angle is 72° . Could these be the angles of a triangle?
12. Four angles are split in the ratio 5:6:3:2. The smallest angle is 45° . Could these four angles meet at a point?

Ratio – 1 part given – ANSWERS

1. Claire and John share some money in the ratio 3:2. Claire receives £18 – how much does John receive? **£12**
2. Claire and John share some money in the ratio 6:4. Claire receives £18 – how much does John receive? **£12**
3. Claire and John share some money in the ratio 3:2. Claire receives £36 – how much does John receive? **£24**
4. Sandy and Mark share some sweets in the ratio 1:4. Mark receives 48 sweets. How many does Sandy receive? **12 sweets**
5. Sandy and Mark share some sweets in the ratio 1:9. Mark receives 18 sweets. How many does Sandy receive? **2 sweets**
6. George and Joe share some sweets in the ratio 1:9. Joe receives 18 sweets. How many sweets are shared in total? **20 sweets**
7. George and Joe share some money in the ratio 7:9. Joe receives 18 sweets. How sweets are shared in total? **32 sweets**
8. Huda, Nicole and Bethan share some money in the ratio 7:8:9. Huda receives 14 sweets. How many sweets do Nicole and Bethan each receive?
Nicole – 16 sweets. Bethan – 18 sweets.
9. A piece of wood is split into three pieces into the ratio 7:8:9. The smallest piece of wood is 21cm. Work out the length of the other two pieces. **24cm and 27cm**
10. A piece of wood is split into three pieces into the ratio 3:6:5. The smallest piece of wood is 21m. Work out the total length of the wood. **98m**
11. Three angles are in the ratio 3:6:5. The largest angle is 72° . Could these be the angles of a triangle? **No – the angles would be 36° , 72° and 60° – these do not add to 180° .**
12. Four angles are split in the ratio 5:6:3:2. The smallest angle is 45° . Could these four angles meet at a point? **Yes – the angles would be 112.5° , 135° , 67.5° and 45° – these do add to 360° .**