

Dr Oliver Mathematics

Three Ratios on a Straight Line

In this note, we will explore three ratios that lie in order on a straight line.

1. The points A , B , C , and D lie in order on a straight line.

$$AB : BD = 1 : 3.$$

$$AC : CD = 1 : 1.$$

Work out $AB : BC : CD$.

2. The points A , B , C , and D lie in order on a straight line.

$$AB : BD = 1 : 2.$$

$$AC : CD = 3 : 2.$$

Work out $AB : BC : CD$.

3. The points A , B , C , and D lie in order on a straight line.

$$AB : BD = 2 : 3.$$

$$AC : CD = 3 : 1.$$

Work out $AB : BC : CD$.

4. The points A , B , C , and D lie in order on a straight line.

$$AB : BD = 1 : 2.$$

$$AC : CD = 7 : 5.$$

Work out $AB : BC : CD$.

5. The points A , B , C , and D lie in order on a straight line.

$$AB : BD = 3 : 5.$$

$$AC : CD = 5 : 1.$$

Work out $AB : BC : CD$.

6. The points A , B , C , and D lie in order on a straight line.

$$AB : BD = 7 : 13.$$

$$AC : CD = 2 : 1.$$

Work out $AB : BC : CD$.