

Consumer and producer surplus

Peter Smith summarises central aspects of these two key concepts in economics

1 The demand curve (D) reflects the value that consumers place upon a product — it shows their willingness-to-pay at any given price. At a relatively high price, fewer consumers are prepared to buy.

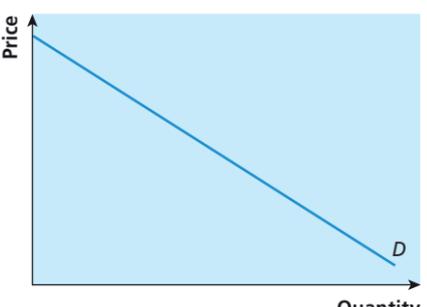


Figure 1 Demand as willingness to pay

2 If all consumers pay the same price (P) this means that there is a marginal consumer, who just values the good at this price — so the price represents the marginal benefit received by consumers of this product.

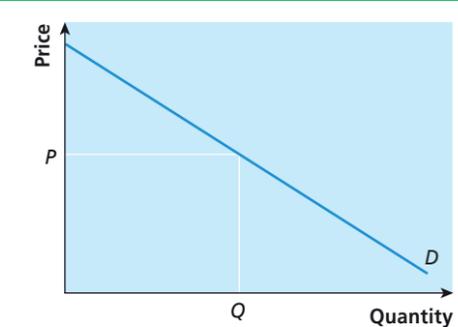


Figure 2 What if all consumers pay the same price?

3 Although the marginal consumer pays exactly his or her willingness-to-pay valuation of the product, there are other consumers who would have been prepared to pay more — these consumers therefore gain a surplus of satisfaction from their consumption. The total surplus is shown by the shaded area in Figure 3, and is known as **consumer surplus**.

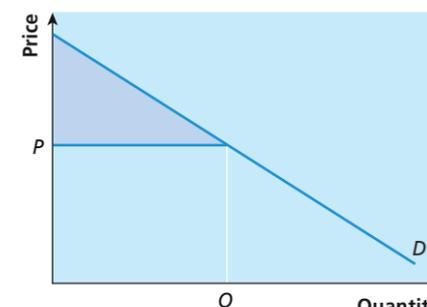


Figure 3 Consumer surplus

7 This diagram brings together consumer and producer surplus. The relative size of each depends upon the shape and position of the demand (D) and supply (S) curves.

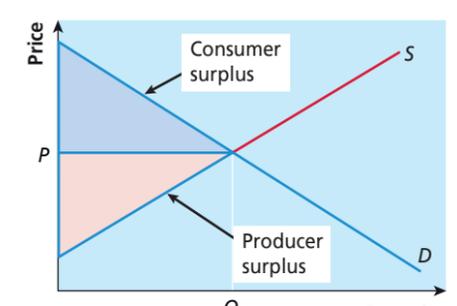


Figure 7 Consumer and producer surplus

4 In a competitive market, the quantity that firms are prepared to supply depends upon the market equilibrium price. Given the costs faced by firms, they will be prepared to supply more at a higher price.

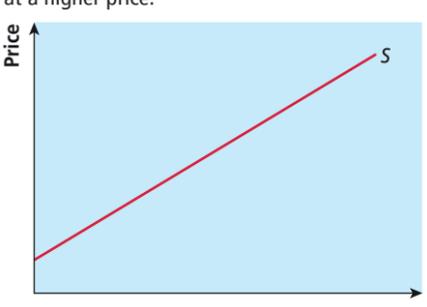


Figure 4 Willingness to supply

5 With the equilibrium price at P , firms will be prepared to supply the quantity Q of the product. If the price were slightly below P , the last unit would not be worth supplying. This may be seen as the marginal cost of supplying this product, where cost includes the opportunity cost of production.

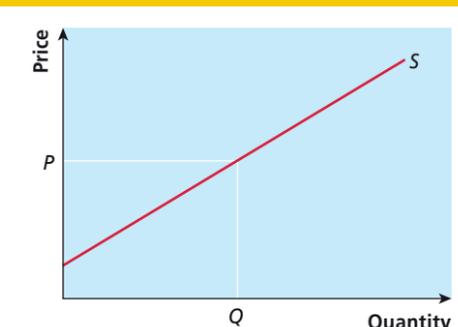


Figure 5 What if there is a single price in the market?

6 The shaded area in Figure 6 shows the total surplus earned by firms from selling at price P given that they would have been prepared to supply at a lower market price. This is known as **producer surplus**.

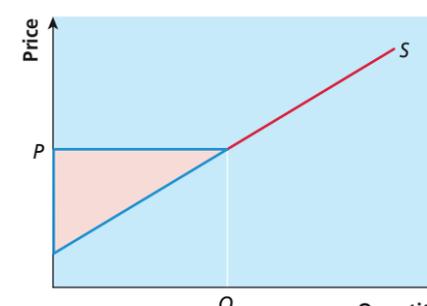
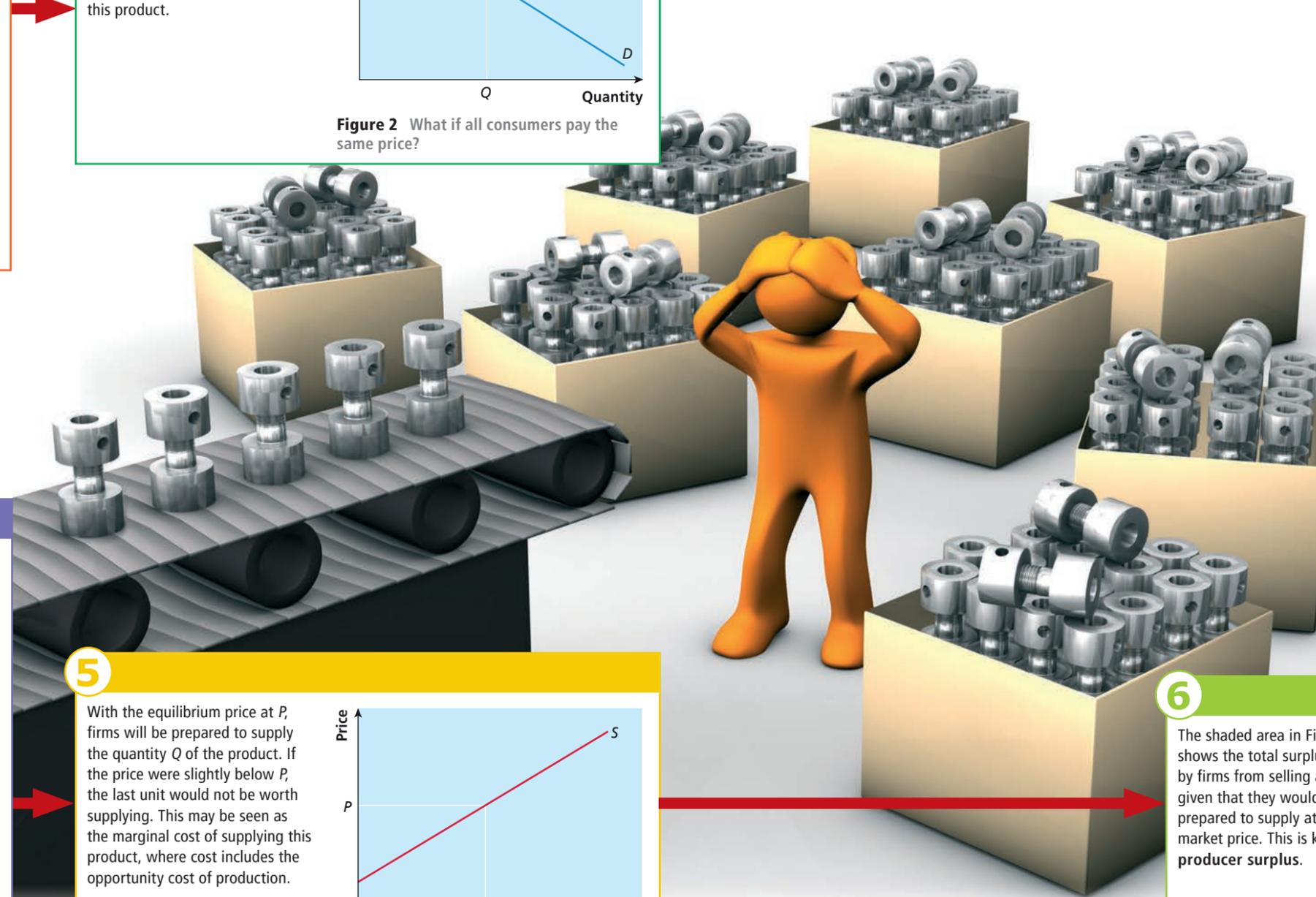


Figure 6 Producer surplus



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