

Exercise walk-through

The Effects of Government Intervention in Markets ■ 2.8

eXercise

You must be able to

- analyse a **price ceiling** 价格上限 and a **price floor** 价格下限
- show how a binding price control creates a **deadweight loss** 无谓损失
- analyse the impact of a **per-unit tax** 从量税 on price, quantity, and revenue
- explain how **tax incidence** 税负归宿 depends on relative elasticities

Method — Price controls

A **binding ceiling** (below equilibrium) causes a **shortage**; a **binding floor** (above equilibrium) causes a **surplus**. Both reduce total surplus, creating a **deadweight loss**.

Method — A per-unit tax

Raises the price buyers pay, lowers the price sellers keep, and **reduces the quantity** traded; the gap is government revenue.

Method — Tax incidence

The **more inelastic** side of the market bears the **larger** share of the tax.

Practice 2.1 ■ 1 mark

State the effect of a binding price ceiling.

Solution 2.1

Method: Price controls

Worked steps

it causes a shortage (quantity demanded exceeds quantity supplied) **B1**.

Practice 2.2 ■ 1 mark

State who bears more of a tax: the more elastic or the more inelastic side.

Solution 2.2

Method: Tax incidence

Worked steps

the more inelastic side **B1**.

Practice 2.3 ■ 2 marks

A \$2 per-unit tax is placed on a good. State its effect on the price buyers pay and the quantity traded.

Solution 2.3

Method: A per-unit tax

Worked steps

the price buyers pay rises and the quantity traded falls **B1** **B1**.

Exam-style 3.1 ■ 1 mark

A binding price floor causes a

- A** shortage
- B** surplus
- C** higher quantity traded
- D** no change

Solution 3.1

Method: Price controls

A shortage

B surplus 

C higher quantity traded

D no change

Worked steps

B.

Exam-style 3.2 ■ 1 mark

A per-unit tax creates a

A gain in total surplus

B deadweight loss

C shortage

D subsidy

Solution 3.2

A gain in total surplus

B deadweight loss



C shortage

D subsidy

Worked steps

B.

Exam-style 3.3 ■ 1 mark

A per-unit tax is placed on a good with very **inelastic** demand.

- (a) State who bears most of the tax.
- (b) State the effect on the quantity traded.
- (c) Name the loss of total surplus that the tax creates.

Solution 3.3

Method: Price controls

Worked steps

(a) buyers (demand is more inelastic) **B1**. (b) it falls only a little **B1**. (c) deadweight loss **B1**.