

Name:

Exam Style Questions

Money: Estimation



Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 400r



Answers and Video Solutions



1. A pencil costs 39p



Estimate the cost of 6 pencils.

$$\begin{aligned} 39 \times 6 &\approx 40 \times 6 \\ &= 240p \end{aligned}$$

£2.40
(2)

2. Estimate the cost of 20 sandwiches at £2.95 each.



$$\begin{aligned} 2.95 \times 20 &\approx 3 \times 20 \\ &= £60 \end{aligned}$$

£60
(2)

3. Kaylin buys 62 onions at 29p each.



Estimate the total cost.

$$\begin{aligned} 62 \times 29 &\approx 60 \times 30 \\ &= 1800p \end{aligned}$$

£18
(2)

4. A coffee shop charges £3.90 for a slice of cake and £2.95 for a croissant.



On Monday, 62 slices of cake were sold.

(a) Estimate the total cost for the slices of cake sold.

$$\begin{aligned} & 62 \times \text{£}3.90 \\ \approx & 60 \times \text{£}4 \\ = & \text{£}240 \end{aligned}$$

$$\begin{array}{r} \text{£}240 \\ \hline \end{array} \quad (2)$$

The manager of the coffee shop says "on Monday nearly £89 was spent on croissants."

(b) Estimate the number of croissants sold on Monday.

$$\begin{aligned} & 89 \div 2.95 \\ \approx & 90 \div 3 \\ = & 30 \end{aligned}$$

$$\begin{array}{r} 30 \\ \hline \end{array} \quad (2)$$

5.



Ken buys 21 tickets for an ice hockey match.
The total cost of the tickets is £404.25

- (a) Estimate the cost of one ticket.
Show your method.

$$404.25 \div 21$$

$$\approx 400 \div 20 = \pounds 20$$

$$\begin{array}{r} \pounds 20 \\ \hline (2) \end{array}$$

- (b) Calculate the cost of one ticket.

$$404.25 \div 21 = \pounds 19.25$$

$$\begin{array}{r} \pounds 19.25 \\ \hline (2) \end{array}$$

6.

Estimate the total cost of 41 microwaves at £108.99 and 28 kettles at £50.49 each.



Show clearly how you obtained your answer.

$$\begin{aligned} & (41 \times \pounds 108.99) + (28 \times \pounds 50.49) \\ \approx & (40 \times 110) + (30 \times 50) \\ = & 4400 + 1500 \\ = & 5900 \end{aligned}$$

$$\begin{array}{r} \pounds 5900 \\ \hline \end{array} \quad (3)$$

7. 40 children go on a trip to a funfair.



28 out of the 40 children decide to go on the rollercoaster.

(a) What percentage of the children go on the rollercoaster?

$$\frac{28}{40} = \frac{7}{10}$$

$$\begin{array}{r} 70 \\ \hline \end{array} \% \quad (2)$$

It cost £4.25 for a ticket to go on the rollercoaster.

(b) Estimate the cost of the 28 tickets.

$$\approx 30 \times \pounds 4$$

$$\begin{array}{r} \pounds 120 \\ \hline \end{array} \quad (2)$$

8. Estimate how many books costing £9.09 can be bought for £274



$$274 \div 9.09$$

$$\approx 270 \div 9 = 30$$

30

(2)

9. In a theatre there are 39 rows and in each row there are 32 seats.
Each ticket costs £19.75



Work out an estimate for the total income from ticket sales.

$$39 \times 32$$

$$\approx 40 \times 30 = 1200$$

$$1200 \times 19.75$$

$$\approx 1200 \times 20$$

$$= 24000$$

£ 24000

(3)

10. Harvey buys a car.



He pays a deposit of £4975 and 72 monthly payments of £139.44.

Estimate the total cost of the car.

$$\begin{aligned} &\approx 5000 + (70 \times 140) \\ &= 5000 + 9800 \\ &= 14800 \end{aligned}$$

£ 14800
(3)

11. Ricardo teaches 195 days each year. ≈ 200



He estimates that he brings a packed lunch for 80% of the days that he works and buys a school dinner on the other days.

A school dinner costs £4.15 \approx £4

Work out an estimate of how much money Ricardo spends on school dinners each year.

$$\begin{aligned} 80\% \text{ of } 200 &= 160 \\ 20\% \text{ of } 200 &= 40 \end{aligned}$$

$$40 \times £4$$

£ 160
(3)

12. The prices to park in the car park are shown below.



845

1010

$2x$

$x + 380$

505

x

Up to 2 hours	£0.90	→ £1
2 to 4 hours	£2.05	→ £2
More than 4 hours	£3.95	→ £4

Over a weekend, 2400 cars parked in the car park.

380 more cars parked in the car park for "2 to 4 hours" than for "more than 4 hours."

Twice as many cars parked in the car park for "up to 2 hours" than "more than 4 hours."

Work out an estimate for the total amount paid for parking over the weekend.

$$4x + 380 = 2400$$

$$4x = 2020$$

$$x = 505$$

$$(1010 \times 1) + (885 \times 2) + (505 \times 4) =$$

$$1010 + 1770 + 2020 = \underline{\underline{4800}}$$

or

$$(1000 \times 1) + (900 \times 2) + (500 \times 4) =$$

$$1000 + 1800 + 2000 = \underline{\underline{4800}}$$

£.....4800

(5)