

Name: _____

Exam Style Questions

Cost per Kilogram



Corbettmaths

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 400k



Answers and Video Solutions



1. 1kg of carrots costs 52p
Jim buys 4kg of carrots.



How much does Jim pay?

$$\begin{array}{r} 52 \\ \times 4 \\ \hline 208 \end{array}$$

£2.08

(1)

2. 1kg of broccoli costs £2.50
Jenny buys 3.5kg of broccoli.



How much does she pay?

$$2.50 \times 3.5 = £8.75$$

£8.75

(2)

3. 5kg of mince costs £47
Tim buys 4kg of mince.



How much does Tim pay?

$$47 \div 5 = £9.40$$

$$9.40 \times 4 = £37.60$$

£37.60

(2)

4. 1kg of sweet potato costs £1.40
1kg of mushrooms costs £3.20



Work out the cost of 3.2kg of sweet potato and 0.4kg of mushrooms.

$$3.2 \times 1.40 = £4.48$$

$$3.2 \times 0.4 = £1.28$$

$$4.48 + 1.28 =$$

£ 5.76

(3)

5.



Prices

Bananas	45p each
Grapes	£4.10 per kg
Peaches	£3.80 per kg

$$\begin{array}{r} 45 \\ \times 3 \\ \hline 135 \end{array}$$

Andrew buys 3 bananas

2kg of grapes

$\frac{1}{2}$ kg of peaches

Find the total cost.

$$3 \times 45 = 135p$$

$$2 \times 4.10 = £8.20$$

$$\frac{1}{2} \text{ of } 3.80 = £1.90$$

$$\begin{array}{r} 820 \\ 135 \\ + 190 \\ \hline 1145 \end{array}$$

£ 11.45

(4)

6. In a shop, broccoli cost £2 per kilogram and potatoes cost 90p per kilogram.



Fozia buys 7kg of potatoes and some broccoli.
The total cost is £12.30

How much broccoli does Fozia buy?

$$7 \times 90 = 630$$

$$12.30 - 6.30 = \pounds 6.00$$

$$\pounds 6.00 \div \pounds 2 = 3$$

3 kg
.....
(3)

7. 4.2kg of almonds costs £41.37



Work out the cost of 1.8kg of almonds.

$$41.37 \div 4.2 = 9.85$$

$$9.85 \times 1.8 = \pounds 17.73$$

£17.73
.....
(3)

8. Blueberries cost £11 per kilogram.



Work out the cost of 750g of blueberries.

$$11 \div 4 = 2.75$$

$$2.75 \times 3 = \pounds 8.25$$

£ 8.25
.....
(2)

9. A kilogram of raisins costs £3.80



Calculate the cost of 650g of raisins.

$$3.80 \times 0.65 = 2.47$$

£.....
2.47
(2)

10.



Prices

Rice	22p per 100g
Lentils	28p per 100g
Sugar	80p per 100g

James buys 300g of rice, 150g of lentils and 1kg of sugar.

Work out the total cost.

$$22 \times 3 = 66p \text{ (rice)}$$

$$28 + 14 = 42p \text{ (lentils)}$$

$$80 \times 10 = 800p$$

$$\begin{array}{r} 800 \\ 66 \\ + 42 \\ \hline 908 \end{array}$$

£.....
9.08
(4)

11. Jasmine buys 6kg of apples and 5kg of oranges.
The total price is £28.20



The apples costs £2.70 per kilogram

Work out the cost of 1kg of oranges.

$$2.7 \times 6 = 16.20$$

$$28.20 - 16.20 = 12$$

$$12 \div 5 = \pounds 2.40$$

£ 2.40
(4)

12. Asparagus cost £8.30 per kg
Broccoli cost £2.50 per kg



Julie buys 460g of broccoli and some asparagus.
The total cost is £6.96

How much asparagus did Julie buy?

$$2.5 \times 0.46 = 1.15$$

$$6.96 - 1.15 = 5.81$$

$$5.81 \div 8.3 = 0.7$$

700g

(4)

13.



Prices

Salmon	£18.90 per kg
Cod	£16 per kg
Haddock	£18.15 per kg

Tyler has £60 to spend on salmon, cod and haddock.

He buys 1.2kg of salmon and 0.8kg of haddock.

He spends the rest of his money on cod.

How much cod does Tyler buy?

$$1.2 \times 18.90 = 22.68$$

$$0.8 \times 18.15 = 14.52$$

$$60 - 22.68 - 14.52 = 22.80$$

$$22.80 \div 16 = 1.425 \text{ kg}$$

$$\begin{array}{r} 1.425 \text{ kg} \\ \hline \end{array}$$

(4)

14.



Carrots cost 60p per kg
Mushrooms cost 30p per 100g
Potatoes cost 80p per kg

6p per 100g

Grace bought 2.4kg of carrots, mushrooms and potatoes, in the ratio 2:1:5

Work out how much Grace spent in total.

~~2.4kg = 2400g~~

$$2 + 1 + 5 = 8$$

$$2400 \div 8 = 300g$$

600g of Carrots

300g of mushrooms

1500g of potatoes

$$\begin{array}{r} 120 \\ 90 \\ + 136 \\ \hline 246 \end{array}$$

$$6 \times 6 = 36p \text{ Carrots}$$

$$30 \times 3 = 90p \text{ Mushrooms}$$

$$80 \times 4 = 120p \text{ potatoes}$$

$$\text{£ } 2.46$$

(4)