

Name:

Exam Style Questions

Money: Profit



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 400p



Answers and Video Solutions



1. Rayan bought a watch for £189.99
He sold the watch for £245



How much profit did he make?

$$245 - 189.99 = 55.01$$

$$\begin{array}{r} \underline{\pounds 55.01} \\ (1) \end{array}$$

2. Martin bought six footballs for £9 each.



He sold the footballs for £78

$$6 \times 9 = 54$$

How much profit did he make?

$$78 - 54 = 24$$

$$\begin{array}{r} \underline{\pounds 24} \\ (2) \end{array}$$

3. Chloe bought a box of pens for £18
There were 100 pens in the box.



She sold each pen for 60p each.

How much profit did Chloe make?

$$100 \times 60 = 6000 \text{ p } (\pounds 60)$$

$$60 - 18 = \pounds 42$$

$$\begin{array}{r} \underline{\pounds 42} \\ (3) \end{array}$$

4. Elsie organised a charity raffle.



She sold all 200 tickets for £1.50 each.

The cost of organising the raffle, including prizes was £83

Elsie donated the profit to charity.

Work out how much money Elsie donated to charity.

$$200 \times 1.5 = 300$$

$$300 - 83$$

£217

(3)

5. Tomas bought 52 souvenir magnets for £2.75 each.



He sold 39 of the souvenir magnets for £4.99

$$52 - 39 = 13$$

Tomas then sold the rest of the souvenir magnets for £3.80 each.

Work out how much profit Tomas made.

$$52 \times 2.75 = £143$$

$$39 \times 4.99 = £194.61$$

$$13 \times 3.80 = £49.40$$

$$\begin{array}{r} + \\ \hline £244.01 \end{array}$$

$$244.01 - 143 = £101.01$$

£101.01

(4)

6. Darius buys bottles of lemonade to sell.



He buys 8 crates of bottles of lemonade.

Each crate contains 16 bottles.

Darius paid £12 for each crate.

He sold all the bottles of lemonade for £2 each.

How much profit did Darius make?

$$8 \times 12 = £96$$

$$8 \times 16 = 128$$

$$128 \times 2 = £256$$

$$256 - 96 = 160$$

£160

(4)

7. Yasmin organised a raffle to raise money for a sports club.



Each raffle ticket cost £2

There were 3 prizes.

The 1st prize cost £130

The 2nd prize cost £65

The 3rd prize cost £19

$$\begin{array}{r} 130 \\ 65 \\ \hline 199 \\ \hline £214 \end{array}$$

$$\begin{array}{r} 388 \\ +214 \\ \hline 602 \end{array}$$

The raffle made a profit of £388

Work out how many raffle tickets were sold.

$$214 + 388 = 602$$

$$602 \div 2 = 301$$

301

(4)

8. There are 20 doughnuts in one tray.
Each tray costs £10



Charlotte buys 8 trays of doughnuts. £80
She sells 110 of the doughnuts for 90p each.
She sells the rest of the doughnuts at half price.

Work out how much profit Charlotte made.

$$8 \times 20 = 160 \text{ doughnuts}$$

$$110 \times 0.9 = £99$$

$$50 \times 0.45 = £22.50$$

$$\underline{£121.50}$$

$$121.50 - 80 = 41.50$$

$$\underline{\underline{£41.50}}$$

(4)

9. Marvin pays £800 for 240 scarves.



He sold $\frac{5}{8}$ of the scarves for £9 each.

150

He sold the rest of the scarves for £4 each.

£1350
↓
£360

Work out how much profit Marvin made from selling the scarves.

$$240 \div 8 = 30$$

$$30 \times 5 = 150$$

$$\begin{array}{r} 150 \\ \times 9 \\ \hline 1350 \end{array}$$

$$\begin{array}{r} 90 \\ \times 4 \\ \hline 360 \end{array}$$

$$\begin{array}{r} 1350 \\ 360 \\ \hline 1710 \end{array}$$

$$\begin{array}{r} 1710 \\ - 800 \\ \hline 910 \end{array}$$

$$\underline{\underline{£910}}$$

(4)

10. A greengrocer bought 420 watermelons for £2.25 each.



A two-third of the watermelons are sold for the full price of £4 £1120
Three-quarters of the remaining watermelons are sold for half price.
The rest of the watermelons do not sell. £210

Work out how much profit the greengrocer made from the watermelons.

$$420 \div 3 = 140$$

$$140 \times 2 = 280$$

$$280 \times 4 = £1120$$

$$420 - 280 = 140$$

$$\frac{3}{4} \text{ of } 140 = 105$$

$$105 \times 2 = £210$$

$$1120 + 210 = £1330$$

$$420 \times 2.25 = £945$$

$$1330 - 945 = 385$$

$$\begin{array}{r} \dots\dots\dots \\ \underline{£385} \\ \end{array}$$

(4)

11. Nylah has 90 lamps to sell.



Each lamp cost her £17.50

$$90 - 62 = 28$$

Nylah sold 62 of the lamps for £45 each.

She then reduced the price of the lamps by 20% and sold the rest.

Calculate how much profit Nylah made on the lamps.

$$90 \times 17.50 = £1575$$

$$62 \times 45 = £2790$$

$$45 \div 10 = 4.5$$

$$4.5 \times 2 = 9$$

$$45 - 9 = 36$$

$$36 \times 28 = 1008$$

$$2790 + 1008 = 3798$$

$$3798 - 1575 = 2223$$

$$\begin{array}{r} \dots\dots\dots \\ \underline{£2223} \\ \end{array}$$

(4)

12. A football club organise a raffle to raise funds for a new minibus.



They sell 600 tickets for £6 each.

The probability that a ticket chosen at random wins a prize is 0.13
Each prize costs £20

Work out how much money the raffle raises.

$$600 \times 6 = £3600$$

$$600 \times 0.13 = 78$$

$$78 \times 20 = 1560$$

$$3600 - 1560 = 2040$$

£2040

(3)

13. Finley sold 260 ponchos at a festival.



70% of the ponchos sold were adult sized and the rest child sized.

Each adult sized poncho made a profit of £8.70

Each child sized poncho made half as much profit as the adult sized poncho.

Work out how much profit Finley made in total.

$$260 \times 0.7 = 182 \text{ (adult)}$$

$$260 \times 0.3 = 78 \text{ (child)}$$

$$182 \times 8.70 = 1583.40$$

$$78 \times 4.35 = 339.30$$

$$\underline{1922.70}$$

$$8.70 \div 2 = 4.35$$

£1922.70

(5)

14. Kezia bought 140 calendars at £5.50 to sell at a Sunday market.



She sold 68 of the calendars for £15 each.

Kezia then reduced the price by £4.50 and sold some more calendar.

Kezia made a profit of £880 by the end of the day.

Work out how many calendars Kezia had left.

$$140 \times 5.50 = 770$$

$$68 \times 15 = 1020$$

$$880 + 770 = 1650$$

$$1650 - 1020 = 630$$

$$630 \div 10.5 = 60$$

$$140 - 68 - 60 = 12$$

12

.....
(6)

15. Freya organises a day trip to a theme park for 42 people.



The ratio of adults to children on the trip is 1 : 2 $1+2=3$
Each person pays £45 to go on the day trip.

Freya hires a coach for £325
The cost of fuel is £1.10 per mile.
The coach travels a total of 130 miles.

The theme park entrance costs £24 per adult and £19 per child.
The cost of parking at the theme park is £8 per coach.

Work out how much profit Freya made from organising the day trip.

$$42 \div 3 = 14$$

14 adults 28 children

$$42 \times 45 = \underline{1890}$$

$$1.10 \times 130 = \underline{\pounds 143} \text{ (fuel)}$$

$$24 \times 14 = \pounds 336 \text{ (adult)}$$

$$19 \times 28 = \pounds 532 \text{ (child)}$$

$$\pounds 8 \text{ (parking)}$$

$$\pounds 325 \text{ (hire)}$$

$$\underline{\pounds 1344}$$

$$\pounds 546$$

.....
(7)

$$1890 - 1344 = \pounds 546$$