

Fractions Level 2

Name: _____

Date: _____

Hairdressing Practice Book

Skills used in this practice book include:

Finding fraction parts
Simplifying fractions
Creating fractions using two numbers
Ordering fractions
Adding & subtracting fractions
Working with proper fractions, improper fractions & mixed numbers

Alia has started an apprenticeship at a hairdressing salon in a city centre. There are three full-time hairdressers and one part-time hairdresser already working at the salon. Their price list is shown on the next page. You may need to use the price list to answer some of the questions.



Hairstyling done right
PRICE LIST

Styles

Senior Stylist

Ladies' Cut & Blowdry £49
Gents' Cut & Blowdry £37
Blowdry £33

Stylist

Ladies' Cut & Blowdry £45
Gents' Cut & Blowdry £33
Blowdry £30

Hair Up from £43
Hair Extensions Enquire Now

Highlights

Senior Stylist

Full Head £102
Half Head £79

Stylist

Full Head £98
Half Head £73

Colour

Senior Stylist

Full Head Permanent £56
Ammonia Free Full Head £60

Stylist

Full Head Permanent £51
Ammonia Free Full Head £56

Section 1

Question 1

The salon has a special offer on a Tuesday where pensioners get one third off the price of a colour. No other services are discounted.

a) Jan is a pensioner and books a full head permanent colour and a cut and blow-dry on Tuesday with the senior stylist. How much will Jan pay in total?

b) Jan's friend Liz also visits the salon on Tuesday and has a permanent full head colour with a stylist plus a cut and blow-dry. How much is the discount that Liz will get?

Question 2

The senior stylist decides to give a discount of £34 if you have a full head of highlights on Monday evenings. What fraction is the discount?

Question 3

The senior stylist is considering increasing the price of putting up hair by a tenth. How much would it cost after the increase?

Question 4

For Children in Need, the salon donates $\frac{1}{10}$ of their takings to the charity. Alia is asked to work out how much that would be using the following information:

- Four clients had half head foils with the senior stylist plus cut and blow-drys. Three were female.
- Five ladies had a cut and blow-dry with a stylist.
- Three ladies and one gentleman had full head permanent colours plus cuts and blow-drys with a stylist.
- One lady had a blow-dry with the senior stylist.

How much will the salon be donating to charity?

Section 2

Question 1

Alia is asked to do a stock take of some of the day to day items. She finds $3\frac{3}{4}$ boxes of shampoo for oily hair in the stock room and another $\frac{1}{5}$ of a box on the shelves. What's the total amount of shampoo Alia finds?

Question 2

The salon uses a computerised booking system that works in blocks of $\frac{1}{4}$ hours. For example, to book a session of 1.5hrs you would click on $\frac{6}{4}$ on the booking system.

Alia is asked to book a client in for a colour taking $1\frac{1}{2}$ hrs and a cut and blow-dry taking $\frac{3}{4}$ of an hour. How many blocks on the booking system should Alia allocate?

Question 3

Alia is learning how to do colour. The senior stylist advises her to mix the clear developer $\frac{1}{4}$ at a time to get a smooth finish. Alia decides to measure it out for her first time. She is using 112g of developer. How much should she add at the beginning?

Question 4

The stylist shows Alia a warm blonde colour she has mixed. She has used 1 oz of dark golden blonde, $\frac{1}{2}$ oz of dark neutral blonde, and $\frac{1}{2}$ oz of light golden blonde. How much colour has she mixed in total?

Section 3

Question 1

The salon sells some Gyania hair products for clients to use at home. They add $\frac{1}{5}$ to the cost price to ensure they make some profit. Alia is asked to complete this table of prices.

Item	Cost Price	Selling Price
Gyania Shampoo	£17.99	
Gyania Conditioner	£16.50	
Gyania Hairspray	£14.95	



Question 2

The products come in batches of 260 bottles/cans of each product.

a) The salon reorders the hair products when they have under $\frac{1}{3}$ of the stock left. They have the following stock left: 93 bottles of shampoo, 80 bottles of conditioner and 185 cans of hairspray. Do they need to reorder any stock?

b) Last time they ordered stock, they were given a discount of $\frac{1}{5}$ off the price of one batch of hairspray. How much did they pay for the hairspray?

c) When the hairspray arrived, 20 cans were damaged. Alia was asked to call the company to complain. They ask her to fill in an online form that asks for the fraction of the order that was damaged in its simplest form. What fraction arrived damaged?

Section 4

The salon carried out a survey of customer satisfaction. Customers were sent a link to fill in about their experience of visiting the salon. 250 clients filled in the survey.

Question 1

225 customers rated the salon as excellent. The senior stylist is creating a marketing leaflet and wants to include this information as a simple fraction. What fraction should he record?

Question 2

30 clients said they had experienced an issue during their visit. The senior stylist also wants to know what fraction of the clients this was.

Question 3

Last year when they did the survey, $\frac{1}{8}$ of the clients had experienced an issue but they can't find the records of how many people filled in the survey. The senior stylist wants to know if a higher proportion of customers had an issue this year or last year. *Show your working out.*

Question 4

On Saturday, 15 clients came into the salon. 5 of them did not take part in the survey. What fraction answered the questions?

Question 5

Approximately $\frac{2}{3}$ of the customers said they had visited before. How many people had visited the salon previously?