

Data sheet

Hair salon



At **Headlines** hair salon one of the treatments available is hair colouring.

For hair colouring the hairdresser puts a rinse on the client's hair.

The amount of colour needed depends on the length of hair.

This is shown in the first table.

Amount of colour mixture needed

Hair length	Millilitres (ml) of colour mixture needed
Very short	20
Short	30
Medium	40
Long	50
Very long	60

The mixture for the rinse consists of the colours and the proportions shown in the table below

		Main colours			
		Black	Brown	Red	Blonde
Colour required by client	Black rinse	1			
	Dark brown rinse	$\frac{3}{4}$	$\frac{1}{4}$		
	Brown rinse		1		
	Auburn rinse		$\frac{1}{2}$	$\frac{1}{2}$	
	Red rinse			1	
	Copper rinse		$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$
	Light brown rinse		$\frac{1}{2}$		$\frac{1}{2}$
	Blonde rinse				1

Questions

Hair Salon

1

Shirley has long hair.
She wants a brown rinse on her hair.

How many millilitres of brown colour does the hairdresser need to use?

----- ml

2

Paul has very short hair.
He wants blonde highlights.
This uses half of the usual volume of colour.

How many millilitres of blonde colour does the hairdresser need to use?

----- ml

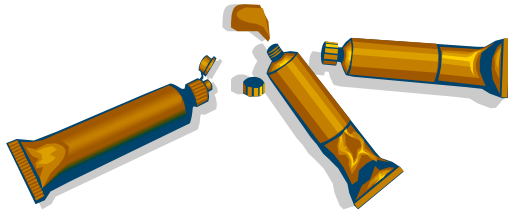
3

Hafifa is having a copper rinse on her hair.
She has medium length hair.
How many millilitres of each colour does the hairdresser need to mix?

Brown ----- ml Red ----- ml Blonde ----- ml

4

Each main colour comes in 100ml tubes.



Jane has medium length hair.
She wants a brown rinse put on her hair.

What fraction of a brown tube is needed?
Give your answer in its simplest form.

5

Monica has very short hair.
She wants a dark brown rinse on her hair.

What fraction of each tube does the hairdresser need to use?
Give your answer in its simplest form.
