

NO calculator

1. There are 180 students in year 7.

$\frac{3}{5}$ of the students are boys.

$\frac{3}{4}$ of the boys like sport.

Work out how many of the boys like sport.

1.

2. There are 1200 cars for hire in a rental agency.

$\frac{3}{4}$ of the cars are manual.

$\frac{5}{6}$ of the manual cars have 5 gears.

Work out how many cars in the rental agency are manual with 5 gears.

2.

3. Mimi's digital camera has space for 400 photos.

$\frac{3}{8}$ of her photos are of landscapes.

$\frac{4}{5}$ of the landscapes are for her photography coursework.

Work out how many photos are for her photography coursework.

3.

Answers

	workings	or long winded way	answer
1	$\frac{3}{4} \times \frac{3}{5} \times 180$	$\frac{3}{5} \times 180 = 108, \frac{3}{4} \times 108$	81
2	$\frac{5}{6} \times \frac{3}{4} \times 1200$	$\frac{3}{4} \times 1200 = 900, \frac{5}{6} \times 900$	750
3	$\frac{4}{5} \times \frac{3}{8} \times 400$	$\frac{3}{8} \times 400 = 150, \frac{4}{5} \times 150$	120