

Drawing a Histogram

RoK- Retention of Knowledge

Draw a bar chart for the following frequency table.

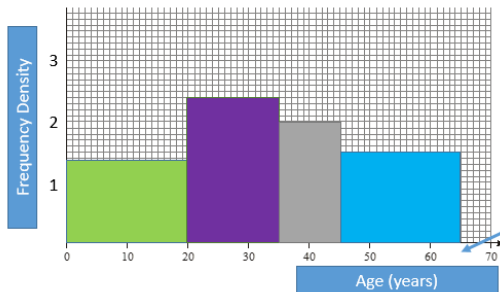
Hair Colour	Frequency
Brown	12
Black	8
Blonde	6
Other	4

The table shows the distribution of the ages of passengers travelling on a train from Newcastle to London.

Age (years)	Frequency	C W	FD
$0 \leq a < 20$	28	20	$28 \div 20 = 1.4$
$20 \leq a < 35$	36	15	$36 \div 15 = 2.4$
$35 \leq a < 45$	20	10	$20 \div 10 = 2$
$45 \leq a < 65$	30	20	$30 \div 20 = 1.5$

Memory Drawing a Histogram

$$\text{Frequency Density} = \frac{\text{Frequency}}{\text{Class Width}}$$



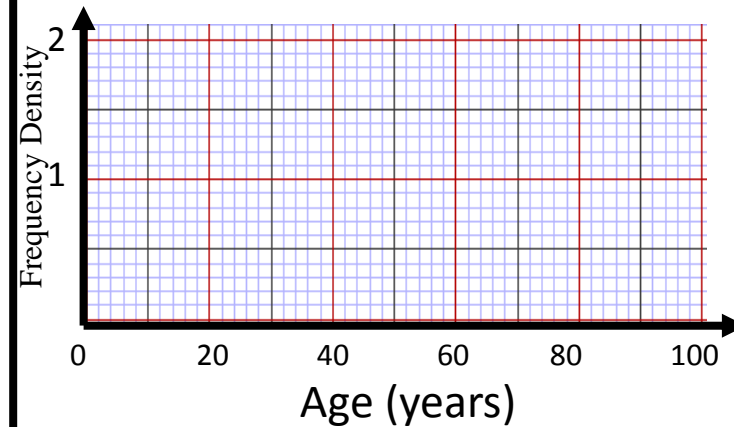
Literacy

Explain what class width is.

Calculate the frequency density and accurately plot as a histogram

Skill 1

Age (years)	Frequency	C W	FD
$0 \leq a < 20$	28		
$20 \leq a < 40$	36		
$40 \leq a < 50$	20		
$50 \leq a < 70$	30		
$70 \leq a < 100$	18		



Complete both the table and the histogram.

Height (cm)	Frequency	C W	FD
$0 < h \leq 20$	30		
$20 < h \leq 30$			
$30 < h \leq 60$	81		
$60 < h \leq 70$	13		
$70 < h \leq 90$			
$90 < h \leq 100$			

Skill 2

Accurately draw and label histograms for the following.

Weight (g)	Frequency	C W	FD
$20 \leq a < 30$	11		
$30 \leq a < 40$	16		
$40 \leq a < 60$	26		
$60 \leq a < 100$	15		

Height (cm)	Frequency	C W	FD
$170 \leq a < 175$	6		
$175 \leq a < 180$	14		
$180 \leq a < 190$	7		
$190 \leq a < 200$	22		

Stretch

