## Drawing Histograms



SCAN ME

## REVISE THIS

 TOPIC1 The table gives information about the mass, in kg , of 60 dogs.

| Mass $(m \mathrm{~kg})$ | Frequency |
| :---: | :---: |
| Frequency Density |  |
| $0<m \leq 5$ | 18 |
| $5<m \leq 15$ | 28 |
| $18 \div 5=3.6$ |  |
| $28 \div 10=2.8$ |  |
| $25<m \leq 50$ | 9 |

On the grid, draw a histogram for this information.


## 

2 The table gives information about the speeds, in mph, of 50 vehicles on a road.

| Speed $(S \mathrm{mph})$ | Frequency |
| :---: | :---: |
| $30<S \leq 40$ | 8 |
| $40<S \leq 45$ | 27 |
| $45<S \leq 50$ | 13 |
| $50<S \leq 70$ | 2 |

Frequency Density
$8 \div 10=0.8$
$27 \div 5=5.4$
$13 \div 5=2.6$
$2 \div 20=0.1$

On the grid, draw a histogram for this information.


## $\downarrow$ - $\mathbf{~}$ @ $@$ 1stclassmaths

3 The table gives information about the ages, in years, of 100 people taking their driving test on one day.

| Age $(A$ years $)$ | Frequency | Frequency Density |
| :---: | :---: | :---: |
| $17<A \leq 20$ | 42 | $42 \div 3=14$ |
| $20<A \leq 25$ | 30 | $30 \div 5=6$ |
| $25<A \leq 30$ | 16 | $16 \div 5=3.2$ |
| $30<A \leq 40$ | 6 | $6 \div 10=0.6$ |
| $40<A \leq 70$ | 6 | $6 \div 30=0.2$ |

On the grid, draw a histogram for this information.

(Total for Question 3 is $\mathbf{3}$ marks)

## - $\boldsymbol{1}$ (0) @1stlassmaths

4 The table gives information about the times, in minutes, of 100 runners to complete a race.

| Time $(t$ minutes $)$ | Frequency | Frequency Density |
| :---: | :---: | :---: |
| $15<t \leq 20$ | 12 | $12 \div 5=2.4$ |
| $20<t \leq 23$ | 27 | $27 \div 3=9$ |
| $23<t \leq 27$ | 20 | $32 \div 4=8$ |
| $27<t \leq 35$ | 9 | $9 \div 8=2.5$ |
| $35<t \leq 45$ | $9 \div 10=0.9$ |  |

On the grid, draw a histogram for this information.
Frequency
Density $10 \uparrow$


5 The table gives information about the distance, in metres, of 40 jumps by a longer jumper.

| Distance $(d$ metres $)$ | Frequency |
| :---: | :---: |
| $6<d \leq 7$ | 2 | | Frequency Density |
| :--- |
| $2 \div 1=2$ |
| $7<d \leq 7.5$ |

On the grid, draw a histogram for this information.


## 

6 The table gives information about the heights, in metres, of 70 trees in a park.

| Height $(h$ metres $)$ | Frequency | Frequency Density |
| :---: | :---: | :---: |
| $0<h \leq 10$ | 16 | $16 \div 10=1.6$ |
| $10<h \leq 15$ | 28 | $28 \div 5=5.6$ |
| $15<h \leq 25$ | 14 | $14 \div 10=1.4$ |
| $25<h \leq 40$ | 12 | $12 \div 15=0.8$ |

On the grid, draw a histogram for this information.


## - $\mathrm{y}^{\mathbf{\gamma}}$ @ $@ 1$ stclassmaths

7 The table gives information about the mass, in kg, of 40 sheep.

| Mass $(m \mathrm{~kg})$ | Frequency |
| :---: | :---: |
| $0<m \leq 30$ | 6 |
| $30<m \leq 50$ | 20 |
| $50<m \leq 70$ | 10 |
| $70<m \leq 80$ | 4 |

Shaun drew a histogram for the information in the table.


Write down two mistakes that Shaun has made

1. Shaun has plotted frequency rather than frequency density
2. The scale for mass is not consistent. In the first bar 2 squares $=30$ but the next bar 2 squares $=20$
