Examiner only

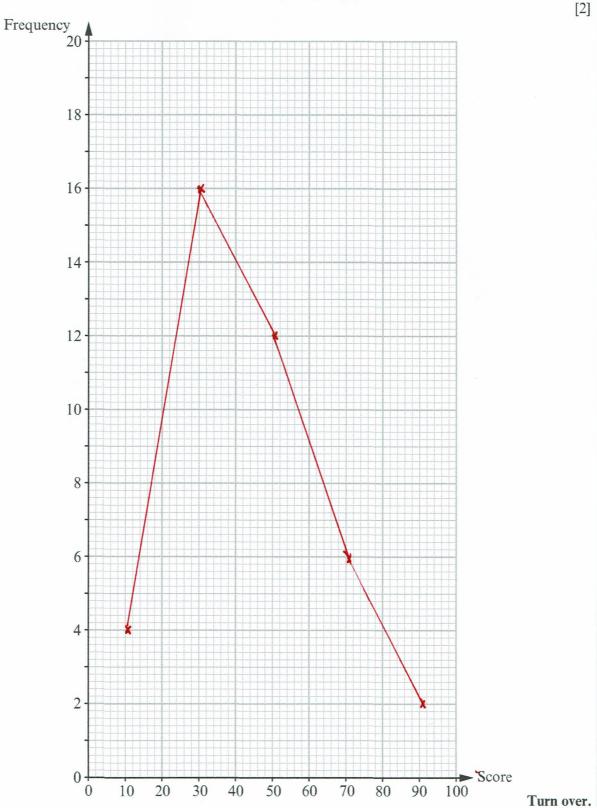
The points scored by 40 fishermen in a competition were recorded. (b) The table shows a grouped frequency distribution of the results.

| Score | 1 to 20 | 21 to 40 | 41 to 60 | 61 to 80 | 81 to 100 |
|-----------|---------|----------|----------|----------|-----------|
| Frequency | 4 | 16 | - 12 | 6 | 2 |

On the graph paper below, draw a frequency polygon to show the data.



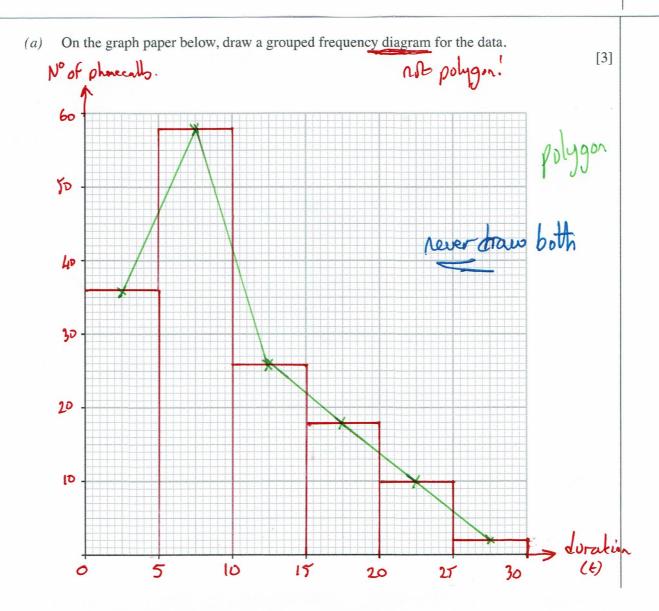
90.5



(185-10)

10. The duration, in minutes, of each of 150 phone calls was recorded. The table shows a grouped frequency distribution of the results.

| Duration of phone call in minutes (t) | Number of phone calls |
|---------------------------------------|-----------------------|
| 0 < t ≤ 5 | 36 |
| 5 < t ≤ 10 | 58 |
| $10 < t \leqslant 15$ | 26 |
| $15 < t \le 20$ | 18 |
| $20 < t \leqslant 25$ | 10 |
| $25 < t \leqslant 30$ | 2 |



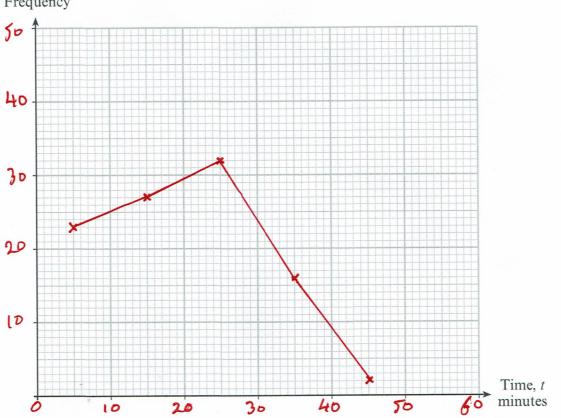
One Saturday an internet café owner recorded the time each of 100 customers spent answering e-mails. The table below shows a summary of the results.

| Time, t minutes | Mins | Frequency |
|-----------------------|------|-----------|
| $0 < t \leqslant 10$ | 5 | 23 |
| $10 < t \leqslant 20$ | 17 | 27 |
| $20 < t \leqslant 30$ | 21 | 32 |
| $30 < t \leqslant 40$ | >5 | 16 |
| $40 < t \leqslant 50$ | 45 | 2 |

On the graph paper below draw a frequency polygon for this data.

[3]

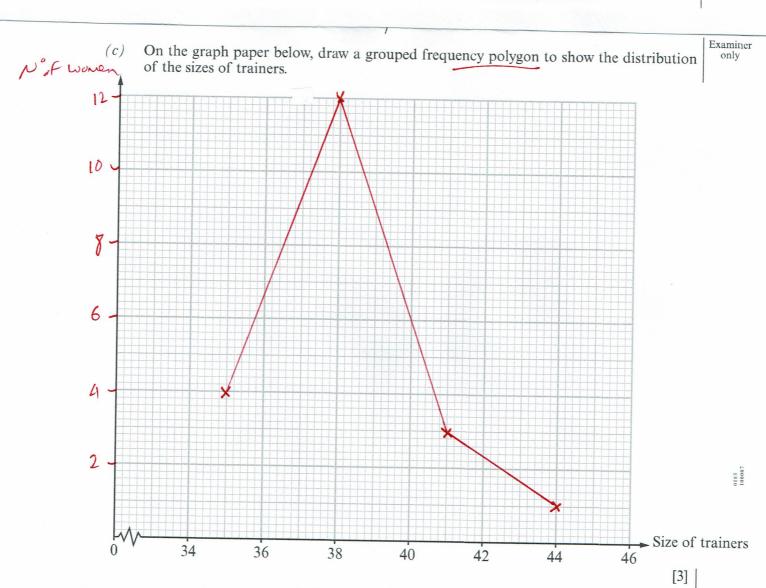




4. Trainer sizes are given as whole numbers.

A survey of the size of trainers worn by 20 women is carried out. The table below shows a summary of the results.

| Size of trainers | mio | Number of women |
|------------------|-----|-----------------|
| 34 to 36 | 35 | 4 |
| 37 to 39 | 38 | 12 |
| 40 to 42 | 41 | 3 |
| 43 to 45 | 44 | 1 |



7. The arm lengths of 100 women were measured in centimetres.

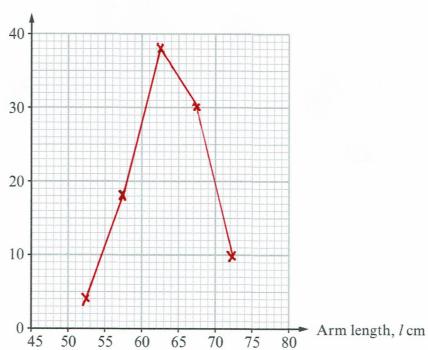
The table below shows a grouped frequency distribution of the results.

| Migs. | 52.5 | 57.2 | 62.7 | 62.7 | 72.7 |
|-------------------------|--------------------|--------------------|-------------|-------------|-----------------------|
| Arm length, <i>l</i> cm | 50 < <i>l</i> ≤ 55 | 55 < <i>l</i> ≤ 60 | 60 < l ≤ 65 | 65 < l ≤ 70 | $70 < l \leqslant 75$ |
| Frequency | 4 | 18 | 38 | 30 | 10 |

(a) On the graph paper below, draw a frequency polygon to show this data.

[2]





4. (a) In Bilchbach, the rainfall for each of 10 days was measured. The results are summarised in the table below.

| MID | Daily rainfall, r (mm) | Number of days |
|-----|--------------------------|----------------|
| 5 | 4·5 ≤ <i>r</i> < 5·5 | 4 |
| 6 | 5·5 ≤ <i>r</i> < 6·5 | 2 |
| 7 | 6·5 ≤ <i>r</i> < 7·5 | 0 |
| 8 | 7·5 ≤ <i>r</i> < 8·5 | 2 |
| 9 | 8·5 ≤ <i>r</i> < 9·5 | 2 |

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[2]



