

m2 = 19 days to go!

8 (a) Explain the meaning of 3^4

$$3^4 = 3 \times 3 \times 3 \times 3$$

Answer 81 [1]

(b) Calculate $3^4 \times 5^3$

$$3 \times 3 \times 3 \times 3 \times 5 \times 5 \times 5$$

Answer 10125 [1]

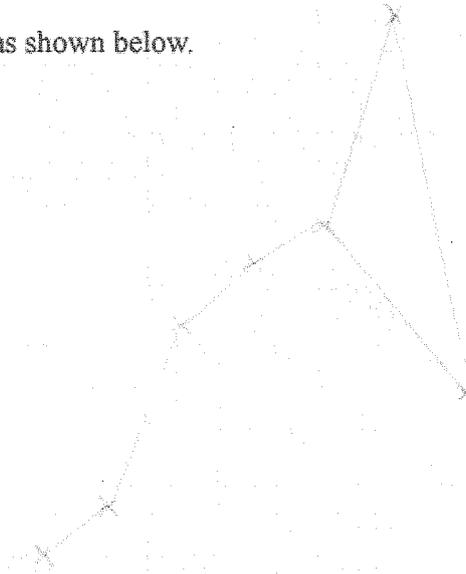
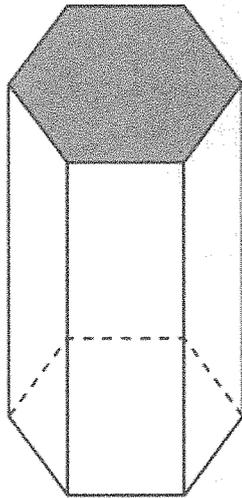
(c) Calculate $4.2^2 + \sqrt{3.61}$

$$4.2 \times 4.2 + 1.9$$

$$17.64 + 1.9$$

Answer 19.54 [2]

16 A pillar is in the shape of a hexagonal prism as shown below.



The area of the shaded cross section is 960 cm^2

The height of the pillar is 1.2m.

Calculate the volume of the pillar.

Different units.

$$1.2 \text{ m} = 120 \text{ cm}$$

$$\text{Vol} = \text{Area} \times \text{Height}$$

$$\text{Vol} = 960 \times 120$$

$$\text{Vol} = 115200$$

Answer 115200 cm³ [3]

21 The masses of some stones found on a beach are shown in the table.

Mass (g)	Number of stones
$10 < m \leq 20$	33
$20 < m \leq 30$	88
$30 < m \leq 40$	57
$40 < m \leq 50$	52
$50 < m \leq 60$	43
$60 < m \leq 70$	17
$70 < m \leq 80$	10

Find 150th value

↓ 33

↓ 121 = 33 + 88

↓ 178 = 33 + 88 + 57

(a) Which interval contains the median mass?

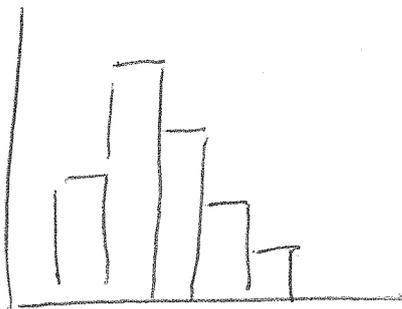
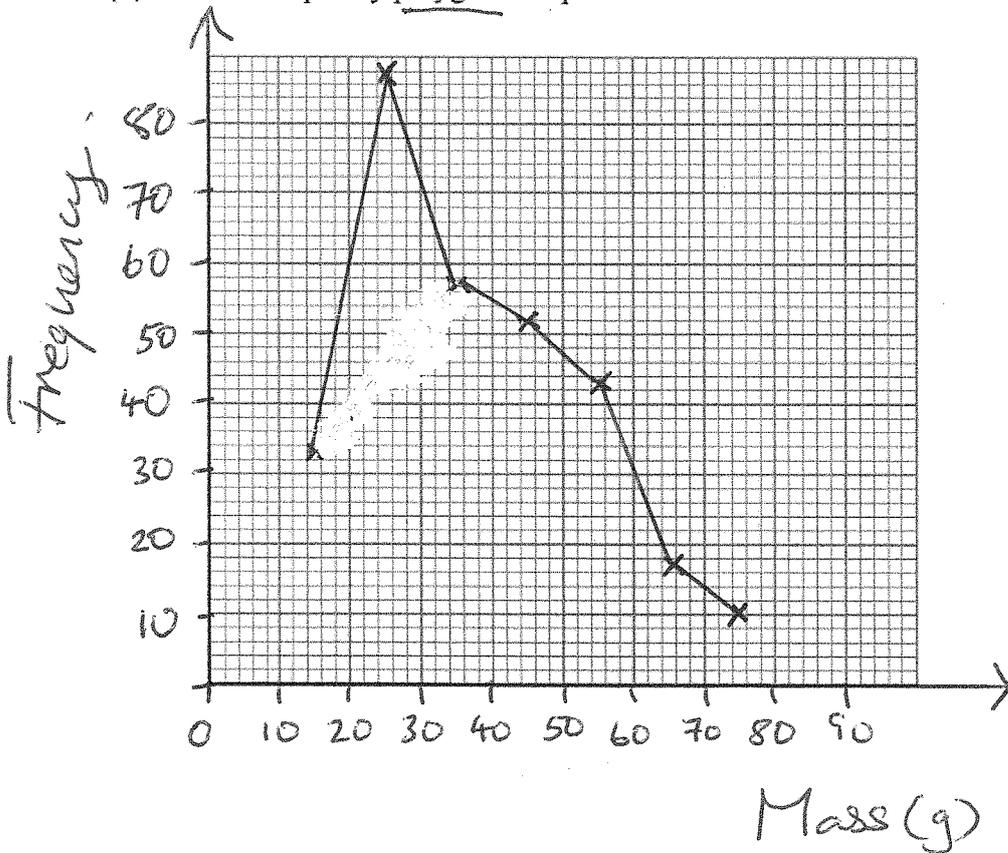
300 values

$\frac{1}{2}$ way value

Answer

$30 < m \leq 40$ [1]

(b) Draw a frequency polygon to represent the data. [4]



Draw bar chart then x in the middle

