

# IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

## Cambridge IGCSE™

Candidate  
name

Candidate  
number

Candidate  
number

MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

For use with: Calculator (optional)

**Solved**

### INSTRUCTIONS

- Answer all questions.
- Use a pencil in this test paper. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answers to each question in the spaces provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- You should use a calculator where appropriate.

1. The diagram shows the number of books in a bookshop each week.

(a) Find the number of books in the bookshop in week 5.

(b) Find the number of books in the bookshop in week 10.

(c) Find the number of books in the bookshop in week 10.

(d) Find the number of books in the bookshop in week 10.

### 2. The table shows the number of books in a bookshop.

Number of books	Frequency
10	2
20	3
30	4
40	5
50	6

#### Find the mean.

$$\text{Mean} = \frac{10 \times 2 + 20 \times 3 + 30 \times 4 + 40 \times 5 + 50 \times 6}{2 + 3 + 4 + 5 + 6}$$
$$= \frac{20 + 60 + 120 + 200 + 300}{20}$$
$$= \frac{680}{20}$$
$$= 34$$

#### Find the standard deviation.

$$\text{Standard deviation} = \sqrt{\frac{10^2 \times 2 + 20^2 \times 3 + 30^2 \times 4 + 40^2 \times 5 + 50^2 \times 6}{20} - 34^2}$$
$$= \sqrt{\frac{200 + 1200 + 3600 + 8000 + 15000}{20} - 1156}$$
$$= \sqrt{\frac{28000}{20} - 1156}$$
$$= \sqrt{1400 - 1156}$$
$$= \sqrt{244}$$
$$= 15.62$$

# Igcse Math November 2012 Paper 22

**Wenbin Ji**



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