

MATHEMATICS

P2

2017 - 2023

QUESTIONS + ANSWERS

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MATHEMATICS 0580

TOPICAL PAST PAPER WORKSHEETS

2017 - 2023 | Questions + Mark scheme

AVAILABLE PAPERS

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977 Questions

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987 Questions

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391 Questions

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443 Questions

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Differentiation	0	4	0	19

1 - (0580/21_Summer_2017_Q2) - *Decimals*

The thickness of one sheet of paper is 8×10^{-3} cm.

Work out the thickness of 250 sheets of paper.

..... cm [1]

2 - (0580/21_Summer_2017_Q3) - *Number Facts*

Write 23.4571 correct to

(a) 4 significant figures,

..... [1]

(b) the nearest 10.

..... [1]

3 - (0580/21_Summer_2017_Q4) - *Number Facts*

The table shows the temperatures in five places at 10 am one day in January.

Place	Temperature ($^{\circ}\text{C}$)
Helsinki	-7
Chicago	-10
London	3
Moscow	-4
Bangkok	26

(a) Which place was the coldest?

..... [1]

(b) At 2 pm the temperature in Helsinki had increased by 4°C .

Write down the temperature in Helsinki at 2 pm.

..... $^{\circ}\text{C}$ [1]

4 - (0580/21_Summer_2017_Q7) - *Number Facts*

Without using a calculator, work out $1\frac{2}{3} + \frac{5}{7}$.

Write down all the steps of your working and give your answer as a mixed number in its simplest form.

..... [3]

5 - (0580/22_Summer_2017_Q1) - *Decimals*

Write 0.071 64 correct to 2 significant figures.

..... [1]

6 - (0580/22_Summer_2017_Q3) - *Number Facts*

Change 6200 cm^2 into m^2 .

..... m^2 [1]

7 - (0580/22_Summer_2017_Q4) - *Number Facts*

Calculate $\sqrt{120} + 3.8^2 - 25$.

..... [1]

8 - (0580/22_Summer_2017_Q5) - *Percentages*

Work out 85 cents as a percentage of \$2.03 .

..... % [1]

9 - (0580/22_Summer_2017_Q9) - *Number Facts*

Without using a calculator, work out $\frac{5}{6} - \frac{1}{2}$.

Show all the steps of your working and give your answer as a fraction in its simplest form.

..... [2]

10 - (0580/22_Summer_2017_Q11) - *Standard Form*

(a) Write 0.0605 in standard form.

..... [1]

(b) Calculate $0.1 \times 5.1 \times 10^4$, giving your answer in standard form.

..... [1]

11 - (0580/22_Summer_2017_Q18) - *Upper And Lower Bound*

A rectangle has length 62 mm and width 47 mm, both correct to the nearest millimetre.
The area of this rectangle is $A \text{ mm}^2$.

Complete the statement about the value of A .

..... $\leq A <$ [3]

12 - (0580/22_Summer_2017_Q20) - *Number Facts*

Write as a single fraction in its simplest form.

$$\frac{2x-1}{3} - \frac{2}{x+1}$$

..... [3]

13 - (0580/23_Summer_2017_Q1) - *Number Facts*

Calculate $\sqrt{\frac{1}{2}(1 - \cos 48^\circ)}$.

..... [1]

14 - (0580/23_Summer_2017_Q3) - *Number Facts*

Find the lowest common multiple (LCM) of 20 and 24.

..... [2]

15 - (0580/23_Summer_2017_Q14) - *Decimals*

Write the recurring decimal $0.\dot{6}\dot{3}$ as a fraction in its lowest terms.
You must show all your working.

..... [3]

ANSWERS

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1 - (0580/21_Summer_2017_Q2) - Decimals

2

2 - (0580/21_Summer_2017_Q3) - Number Facts

(a) $\frac{23.46 \text{ cao}}{20 \text{ cao}}$

(b) $\frac{20 \text{ cao}}{20 \text{ cao}}$

3 - (0580/21_Summer_2017_Q4) - Number Facts

(a) $\frac{\text{Chicago}}{20 \text{ cao}}$

(b) $\frac{-3}{20 \text{ cao}}$

4 - (0580/21_Summer_2017_Q7) - Number Facts

$$\frac{14(\text{or } 35)}{21} + \frac{15}{21}$$

$$2\frac{8}{21} \text{ cao}$$

5 - (0580/22_Summer_2017_Q1) - Decimals

[0].072

6 - (0580/22_Summer_2017_Q3) - Number Facts

[0].62

7 - (0580/22_Summer_2017_Q4) - Number Facts

[0].394
or [0].3944 to [0].3945

8 - (0580/22_Summer_2017_Q5) - Percentages

41.9 or 41.87

9 - (0580/22_Summer_2017_Q9) - Number Facts

$$\frac{5}{6} - \frac{3}{6} \text{ oe}$$

$$\frac{1}{3} \text{ cao final answer}$$