

Integers, HCF/LCM, Prime numbers, Sig Figs, Dec Places

Question Paper 1

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended
Topic	Number
Sub-Topic	Integers, HCF/LCM, Prime numbers, Sig Figs, Dec Places
Booklet	Question Paper 1

Time Allowed: 60 minutes

Score: /49

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%



1 Find the lowest common multiple (LCM) of 36 and 48.

..... [2]

2 Write 3.5897 correct to 4 significant figures.

..... [1]

3 8 9 10 11 12 13 14 15 16

From the list of numbers, write down

(a) the square numbers,

..... [1]

(b) a prime factor of 99.

..... [1]



4 Write 71 496 correct to 2 significant figures.

..... [1]

5 Find the highest common factor (HCF) of 56 and 70.

..... [2]

6 (a) Write 2016 as the product of prime factors.

..... [3]

(b) Write 2016 in standard form.

..... [1]



- 7 At noon the temperature was 4°C .
At midnight the temperature was -5.5°C .

Work out the difference in temperature between noon and midnight.

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

- 8 (a) Write 30 as a product of its prime factors.

Answer(a) [2]

- (b) Find the lowest common multiple (LCM) of 30 and 45.

Answer(b) [2]

- 9 At midnight the temperature in Newtown was -8°C .
At noon the next day the temperature in Newtown was 9°C .

Work out the rise in temperature from midnight to noon.

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



10 Work out the highest common factor (HCF) of 36 and 90.

Answer [2]

2

11 Write down the difference in temperature between 8°C and -9°C .

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

12 Write 168.9 correct to 2 significant figures.

Answer [1]



13 11 12 13 14 15 16

From the list of numbers, write down

(a) the factors of 60,

Answer(a) [1]

(b) the prime numbers.

Answer(b) [1]

14 Find the lowest common multiple (LCM) of 24 and 32.

Answer [2]

15 Write 15.0782 correct to

(a) one decimal place,

Answer(a) [1]

(b) the nearest 10.

Answer(b) [1]



2

16 Insert **one pair** of brackets only to make the following statement

correct. $6 + 5 \times 10 - 8 = 16$

[1]

17 (a) Write 90 as a product of prime factors.

Answer(a) [2]

(b) Find the lowest common multiple of 90 and 105

Answer(b) [2]

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18

$$p = \frac{4.8 \times 1.98276}{16.83}$$

(a) In the spaces provided, write each number in this calculation correct to 1 significant figure.

Answer(a)

$$\frac{\dots \times \dots}{\dots}$$

[1]

(b) Use your answer to **part (a)** to estimate the value of p .

Answer(b) [1]

19 (a) Write 569 000 correct to 2 significant figures.

Answer(a) [1]

(b) Write 569 000 in standard form.

Answer(b) [1]



- 20** In March 2011, the average temperature in Kiev was 3°C .
In March 2012, the average temperature in Kiev was 19°C lower than in March 2011.

Write down the average temperature in Kiev in March 2012.

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

-
- 21** Calculate $\frac{5.27 - 0.93}{4.89 - 4.07}$.

Give your answer correct to 4 significant figures.

Answer [2]

- 22** One January day in Munich, the temperature at noon was 3°C .
At midnight the temperature was -8°C .

Write down the difference between these two temperatures.

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



6

23 The sum of the prime numbers less than 8 is equal to 17.

(a) Find the sum of the prime numbers less than 21.

Answer(a) [2]

(b) The sum of the prime numbers less than x is 58.

Find an integer value for x .

Answer(b) $x =$ [2]



24 Write the following numbers correct to one significant figure.

(a) 7682

Answer(a) [1]

(b) 0.07682

Answer(b) [1]

25 A lake has an area of 63 800 000 000 square metres.

Write this area in square kilometres, correct to 2 significant figures.

Answer km² [2]

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