Topical Past Paper Questions Workbook

Edexcel International GCSE Mathematics A (4MA1) 1F

Exam Series: Jan 2015 - Jan 2022

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Introduction

Each topical past paper questions workbook consists of hundreds of questions and their answer schemes, in the form of worksheets. Questions are assigned to each chapter according to their corresponding topic. Topics, in turn, are based on the items of the latest International GCSE or A level syllabus. This book's specifications are as follows:

Title: Edexcel International GCSE Mathematics A (4MA1) Paper 1F
Subtitle: Exam Practice Worksheets With Answer Scheme
Examination board: Pearson Edexcel
Subject code: 4MA1
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Paper: 1F
Number of pages: 889
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Contents

Chapter 1

Numbers and the number system

1.1 Integers

1. 4MA0_1FR_que_20150106 Q: 1

(a) Write in figures the number **fourteen thousand and twenty six**.

.....

(1)

(b) Write the number 6539 correct to the nearest hundred.

.....

(1)

(c) Write down the value of the 2 in the number 12 430

.....

(1)

(d) Write a number on the dotted line so that the calculation is correct.

$$282 + \ldots\ldots\ldots\ldots\ldots = 650$$

(1)

The International Commerce Centre in Hong Kong is 484 metres tall.
The Burj Khalifa building in Dubai is 346 metres **taller** than the International Commerce Centre.

(e) Work out the height of the Burj Khalifa building.

..... metres

(1)

(Total for Question 1 is 5 marks)

2. 4MA0_1FR_que_20150106 Q: 4

(a) Which two of these numbers are even numbers?

5 9 12 15 19 26 27

..... , ...

(2)

(b) Write down a multiple of 8 that is between 10 and 30

.....

(1)

(c) Write down all the factors of 40

.....

(2)

(d) Which two of these numbers are prime numbers?

15 21 27 29 33 37 39

..... , ...

(2)

(Total for Question 4 is 7 marks)

3. 4MA0_1FR_que_20150521 Q: 1

The table shows the numbers of performances of six musicals on Broadway, New York.

Musical	Number of performances
A Chorus Line	6137
Miss Saigon	4092
42nd Street	3486
Cats	7485
Les Misérables	6680
Grease	3388

(a) Write the number 6137 in words.

.....

(1)

(b) Which number in the table is the largest number?

.....

(1)

(c) Write down the value of the 9 in the number 4092

.....

(1)

(d) Which number in the table is a multiple of 10?

.....

(1)

(e) The number of performances of one musical, when written correct to the nearest hundred, is 3400
Write down the musical.

.....

(1)

(Total for Question 1 is 5 marks)

4. 4MA0_1FR_que_20150521 Q: 7

The table shows the maximum and minimum temperatures recorded in 5 cities during one year.

City	Maximum temperature (°C)	Minimum temperature (°C)
Paris	32	– 4
Sydney	38	8
Ottawa	21	– 17
Helsinki	22	– 16
New York	34	– 12

(a) In which city was the lowest temperature recorded?

.....

(1)

(b) Work out the difference between the maximum temperature and the minimum temperature recorded in New York.

..... °C

(2)

In the same year, the minimum temperature recorded in Oslo was 7 °C lower than the minimum temperature recorded in Helsinki.

(c) Work out the minimum temperature recorded in Oslo that year.

..... °C

(2)

(Total for Question 7 is 5 marks)

5. 4MA0_1FR_que_20160111 Q: 7

The table shows the boiling points and the melting points of five elements.

	Boiling point (°C)	Melting point (°C)
Bromine	59	–7
Chlorine	–34	–101
Mercury	357	–39
Nitrogen	–196	–210
Oxygen	–183	–218

(a) Which of these elements has the lowest boiling point?

.....

(1)

(b) What is the difference in temperature between the boiling point of chlorine and the boiling point of oxygen?

..... °C

(2)

(c) What is the difference in temperature between the melting point of mercury and the boiling point of mercury?

..... °C

(2)

(Total for Question 7 is 5 marks)

6. 4MA0_1FR_que_20170109 Q: 2

Jan recorded the number of steps she took each day last week.
This information is shown in the table.

Day	Number of steps
Monday	9780
Tuesday	4853
Wednesday	12038
Thursday	15243
Friday	4695
Saturday	4801
Sunday	11856

(a) On which day did she take the least number of steps?

.....
(1)

(b) Write the number 12038 in words.

.....

.....
(1)

(c) Round the number 4853 correct to the nearest hundred.

.....
(1)

Two of the numbers in the table are multiples of 5

(d) Write down these two numbers.

..... , ...
(2)

Jan takes 1200 steps to walk one kilometre.

(e) Use this information to work out how many kilometres Jan walked on Thursday.
Give your answer correct to the nearest kilometre.

..... kilometres
(2)

(f) Work out the mean number of steps per day Jan took last week.

.....

(2)

(Total for Question 2 is 9 marks)

---

7. 4MA0_1FR_que_20170525 Q: 15

(a) Write down a prime number between 14 and 20

.....

(1)

(b) Find the two prime numbers that have a sum of 25

.....

(1)

(c) Find the two numbers that have a sum of 60 and a difference of 2

.....

(2)

(Total for Question 15 is 4 marks)

---

8. 4MA0_1FR_que_20180108 Q: 1

(a) Write the number **eight thousand and twenty four** in figures.

.....

(1)

Here are some numbers.

38 5043 623 540

(b) Write these numbers in order of size.
Start with the smallest number.

.....

(1)

There were 76 385 spectators at the 2015 football Asian Cup Final.

(c) (i) Write down the value of the 3 in the number 76 385

.....

(ii) Write the number 76 385 correct to the nearest 1000

.....

(2)

(Total for Question 1 is 4 marks)

9. 4MA0_1FR_que_20180108 Q: 6

The lowest temperature ever recorded in Saudi Arabia is −11°C.
The highest temperature ever recorded in Saudi Arabia is 51°C.

Work out the difference between these two temperatures.

.....°C

(Total for Question 6 is 2 marks)

10. 4MA0_1FR_que_20180525 Q: 8

(a) Work out (–9) – (–15)

.....

(1)

(b) Work out 6 × (–8)

.....

(1)

(c) Work out (–64) ÷ (–4)

.....

(1)

(Total for Question 8 is 3 marks)

11. 4MA1_1FR_que_20180525 Q: 1

The table gives information about the weights, in kilograms, of five animals.

Animal	Weight in kilograms
African buffalo	725
Indian elephant	3178
Giraffe	800
Pilot whale	2205
Walrus	1013

(a) Which animal has the least weight?

.....

(1)

(b) Write down the value of the 1 in the number 3178

.....

(1)

(c) Work out the difference between 2205 and 1013

.....

(1)

The weight of a blue whale is 20 times the weight of the giraffe.

(d) Work out the weight of the blue whale.
Give your answer in tonnes.
1 tonne = 1000 kg

..... tonn

(2)

(Total for Question 1 is 5 marks)

12. 4MA1_1FR_que_20180525 Q: 9

The table shows the temperatures at midnight and at midday at five ski resorts.

Ski resort	Temperature at midnight (°C)	Temperature at midday (°C)
Chamonix	−5	3
Alto Campoo	−8	−2
Javornik	−5	−4
La Parva	−2	−2
Asiago	−7	0

(a) Which ski resort had the lowest temperature at midnight?

.....

(1)

(b) Work out the increase in temperature from midnight to midday for Chamonix.

..... °C

(1)

Jan knows that the temperature falls by 1 °C for every 300 m increase in height above Asiago.

(c) What was the temperature at midnight at a height 1800 m above Asiago?

..... °C

(2)

(Total for Question 9 is 4 marks)

13. 4MA1_1FR_que_20190522 Q: 1

(a) Write a number in each box so that each calculation is correct.

(i) $\square + 357 = 486$

(ii) $\square \times 23 = 1840$

(2)

Here are four cards.
Each card has a number on it.
The four cards are arranged to make the number 2745

(b) (i) Show how the cards can be arranged to make the smallest number using all four cards.

(ii) Show how the cards can be arranged to make an even number using all four cards.

(2)

(Total for Question 1 is 4 marks)

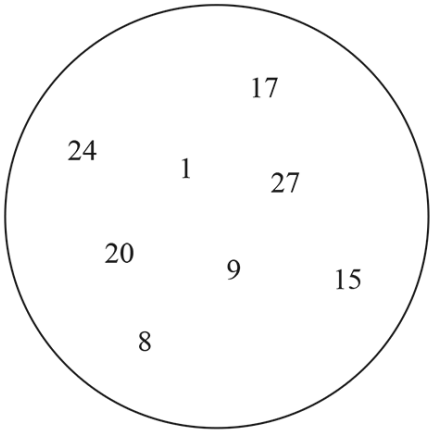
14. 4MA1_1FR_que_20200305 Q: 1

3	2	6	8

(a) Write down the largest possible four digit number using all the digits that are in the box.

.....

(1)



From the numbers in the circle, write down

(b) a multiple of 6

.....

(1)

(c) a prime number

.....

(1)

(Total for Question 1 is 3 marks)

15. 4MA1_1FR_que_20210304 Q: 1

The table shows the heights, in metres, of five mountains.

Mountain	Height (metres)
Aconcagua	6961
Makalu	8485
Kilimanjaro	5895
Mont Blanc	4810
Puncak Jaya	4884

(a) Which of these mountains has the greatest height?

.....

(1)

(b) Write the number 5895 in words.

.....

(1)

(c) Write down the value of the 8 in 4810

.....

(1)

(d) Work out the difference between the height of Aconcagua and the height of Puncak Jaya.

..... metres

(1)

(Total for Question 1 is 4 marks)

16. 4MA1_1FR_que_20220111 Q: 1

10	15	23	25	27	28	33	35

(a) From the numbers in the box, write down

(i) an even number

.....

(ii) a multiple of 9

.....

(iii) a prime number

.....

(3)

Here are four cards.
Each card has a number on it.
The four cards are arranged to make the number 7358

7	3	5	8

(b) (i) Show how the four cards can be arranged to make the smallest number using all four cards.

(ii) Show how the four cards can be arranged to make a correct calculation below.

		+			=	95

(2)

(Total for Question 1 is 5 marks)

17. 4MA0_1F_que_20150521 Q: 1

Here is a list of numbers.

98 483 530 384 498

(a) Write these numbers in order of size.
Start with the smallest number.

.....

(1)

(b) From the list, write down the odd number.

.....

(1)

(c) From the list, write down the number which is a multiple of 5

.....

(1)

(d) Work out the difference between the largest number in the list and the smallest number in the list.

.....

(1)

(Total for Question 1 is 4 marks)

18. 4MA0_1F_que_20150521 Q: 3

(a) Write the number 4832 correct to the nearest 100

.....

(1)

(b) Write down the value of the 6 in the number 46 328

.....

(1)

(Total for Question 3 is 2 marks)

19. 4MA0_1F_que_20160111 Q: 1

The table shows the distance, in kilometres, from Cairo to each of six other cities.

City	Distance from Cairo (km)
Hong Kong	8103
Jakarta	8943
London	3493
Nairobi	3518
New Delhi	4408
Singapore	8220

(a) Which of these cities is furthest away from Cairo?

.....

(1)

(b) Write the number 8103 in words.

.....

.....

(1)

(c) Which number in the table is a multiple of 10?

.....

(1)

(d) Write the number 3518 correct to the nearest ten.

.....

(1)

Alex travels from London to Cairo.
He then travels from Cairo to Singapore.

(e) How far has Alex travelled?

..... km

(2)

(Total for Question 1 is 6 marks)

20. 4MA0_1F_que_20170525 Q: 2

The table shows the weights of seven animals.

Animal	Weight (kg)
buffalo	851
crocodile	785
elephant	8491
giraffe	1391
hippopotamus	2506
rhinoceros	2371
walrus	1154

(a) Which of these animals has the greatest weight?

.....

(1)

(b) Write the number 2506 in words.

.....

(1)

(c) Write down the value of the 7 in the number 2371

.....

(1)

(d) Write the number 1154 correct to the nearest 100

.....

(1)

(e) Which number in the table is a multiple of 5?

.....

(1)

(f) Work out the difference between the weight of the giraffe and the weight of the buffalo.

..... kg

(1)

(Total for Question 2 is 6 marks)

21. 4MA0_1F_que_20170525 Q: 6

The table shows the midday temperature in each of five cities on Tuesday one week.

City	Temperature (°C)
Anchorage	−11
Beijing	−2
Dhaka	25
Moscow	−5
Yellowknife	−30

(a) Which of these cities had the lowest temperature?

.....

(1)

(b) Work out the difference between the temperature in Dhaka and the temperature in Moscow.

..... °C

(2)

By midday on Wednesday, the temperature in Anchorage had fallen by 6 °C.

(c) Work out the temperature in Anchorage at midday on Wednesday.

..... °C

(2)

(Total for Question 6 is 5 marks)

22. 4MA0_1F_que_20190110 Q: 1

The table gives information about the population, to the nearest thousand, of each of six capital cities in 2012

Capital city	Population
Bangkok	8 249 000
Hanoi	3 399 000
London	8 174 000
Madrid	3 234 000
Nairobi	2 666 000
Rome	2 793 000

(a) Which of these capital cities had the least population in 2012?

(1)

(b) Write down the value of the 8 in the number 8 249 000

(1)

(c) Work out the difference between 2 793 000 and 2 666 000

(1)

In 2012 the population of Washington DC was 601 723

(d) Write 601 723 correct to the nearest thousand.

(1)

(Total for Question 1 is 4 marks)

23. 4MA1_1F_que_20200305 Q: 1

The table shows the land area, in km^2, of each of six African countries.

Country	Land area (km^2)
Botswana	566 730
Kenya	569 140
Namibia	823 290
Somalia	627 340
Tanzania	885 800
Zambia	743 390

(a) Write down the name of the country with the greatest land area.

.....

(1)

(b) Write 823 290 correct to the nearest thousand.

.....

(1)

(c) Work out the difference between the land area of Botswana and the land area of Kenya.

..... km^2

(1)

The land area of the Gambia is 10 120 km^2

(d) Write the number 10 120 in words.

.....

.....

(1)

(Total for Question 1 is 4 marks)

24. 4MA1_1F_que_20201104 Q: 1

The table gives information about the amount of crude oil, in barrels, produced per day by each of six countries in 2015

Country	Crude oil produced per day (number of barrels)
Australia	322 300
Congo	269 000
Gabon	213 300
South Sudan	220 000
Thailand	248 200
Vietnam	333 400

(a) Write down the name of the country that produced the least number of barrels of crude oil.

.....

(1)

(b) Work out the difference between the number of barrels of crude oil produced by Vietnam and the number of barrels of crude oil produced by Australia.

.....barrels

(1)

Thailand produced 248 200 barrels of crude oil.

(c) Write 248 200 correct to the nearest thousand.

.....

(1)

(Total for Question 1 is 3 marks)

25. 4MA1_1F_que_20210304 Q: 1

The table shows the height, in metres, of each of seven volcanoes.

Volcano	Height (metres)
Acamarachi	6046
Bazman	3490
Dona Juana	4150
Kamen	4585
Mount Ararat	5137
Ojos del Salado	6893
Semeru	3676

(a) Which of these volcanoes has the greatest height?

.....

(1)

(b) Write down the value of the 8 in the number 4585

.....

(1)

(c) Write the number 6046 in words.

.....

(1)

(d) Write the number 5137 correct to the nearest hundred.

.....

(1)

(e) Work out the difference in the height of the Acamarachi volcano and the height of the Semeru volcano.

..... metres

(1)

(Total for Question 1 is 5 marks)

26. 4MA1_1F_que_20211103 Q: 4

The table shows the temperatures recorded at midnight and at midday for each of five North American cities on a Monday one week.

City	Midnight temperature (°C)	Midday temperature (°C)
Boston	– 2	14
Houston	11	20
Chicago	– 8	7
Detroit	– 7	– 1
New York	0	12

(a) Which city had the lowest midnight temperature?

.....

(1)

(b) Find the difference between the midnight temperature and midday temperature for Boston.

..... °C

(1)

From Monday to Thursday, the midday temperature in Detroit increased by 2°C each day.

(c) Work out the midday temperature in Detroit on Thursday.

..... °C

(2)

(Total for Question 4 is 4 marks)

27. 4MA1_1F_que_20220111 Q: 1

The table shows the average annual rainfall, in mm, for each of five countries.

Country	Average annual rainfall (mm)
Colombia	3240
Jamaica	2051
Brazil	1761
Japan	1668
France	867

(a) Write the number 2051 in words.

.....

(1)

(b) Write the number 1668 correct to the nearest hundred.

.....

(1)

The average annual rainfall for Colombia is more than the average annual rainfall for Brazil.

(c) How much more?

..... mm

(1)

The average annual rainfall for Nigeria was 283 mm more than the average annual rainfall for France.

(d) Work out the average annual rainfall for Nigeria.

..... mm

(1)

(Total for Question 1 is 4 marks)

28. 4MA1_1F_que_20220111 Q: 20

Jenny has six cards.

Each card has a whole number written on it so that

the smallest number is 5
the largest number is 24
the median of the six numbers is 14
the mode of the six numbers is 8

Jenny arranges her cards so that the numbers are in order of size.

(a) For the remaining four cards, write on each dotted line a number that could be on the card.

(3)

A basketball team plays 6 games.
After playing 5 games, the team has a mean score of 21 points per game.
After playing 6 games, the team has a mean score of 23 points per game.

(b) Work out the number of points the team scored in its 6th game.

.....

(3)

(Total for Question 20 is 6 marks)

1.2 Fractions

29. 4MA0_1FR_que_20150106 Q: 19

Show that $7\frac{1}{2} - 4\frac{2}{3} = 2\frac{5}{6}$

(Total for Question 19 is 3 marks)

30. 4MA0_1FR_que_20150521 Q: 10

(a) Write these fractions in order of size.
Start with the smallest fraction.

$$\frac{7}{8} \qquad \frac{3}{4} \qquad \frac{11}{12} \qquad \frac{13}{16}$$

.....

(2)

(b) Show that $\frac{2}{5} \div \frac{6}{7} = \frac{7}{15}$

(2)

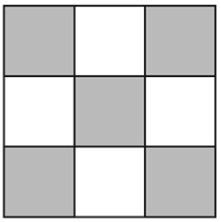
(c) Show that $\frac{2}{5} - \frac{1}{6} = \frac{7}{30}$

(2)

(Total for Question 10 is 6 marks)

31. 4MA0_1FR_que_20160111 Q: 2

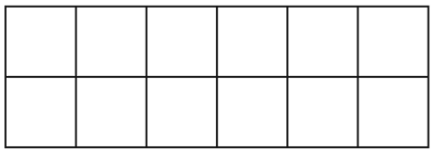
(a) What fraction of this shape is shaded?



.....

(1)

(b) Shade 25% of this shape.



(1)

(c) Write $\frac{18}{20}$ as a decimal.

.....

(1)

(d) Write $\frac{3}{25}$ as a percentage.

.....%

(2)

(Total for Question 2 is 5 marks)

32. 4MA0_1FR_que_20170109 Q: 10

(a) Work out $\frac{2}{9}$ of 738 kg.

..... kg

(2)

There are 24 horses in a field.
17 of the horses are brown.

(b) What fraction of the horses in the field are **not** brown?

.....

(2)

(c) Show that $\frac{10}{21} - \frac{1}{3} = \frac{1}{7}$

(2)

(Total for Question 10 is 6 marks)

33. 4MA0_1FR_que_20180108 Q: 23

There are 320 students at a school.

$\frac{5}{8}$ of these students are girls.

$\frac{3}{4}$ of the girls have blue eyes.

$\frac{2}{3}$ of the boys have blue eyes.

What fraction of the students at the school have blue eyes?

.....

(Total for Question 23 is 4 marks)

34. 4MA0_1FR_que_20180525 Q: 3

(a) On the dotted line, write the number so that the two fractions are equivalent.

$$\frac{40}{100} = \frac{\ldots\ldots\ldots}{25}$$

(1)

(b) Write $\frac{11}{4}$ as a mixed number.

.....

(1)

(c) Write $\frac{6}{20}$ as a percentage.

.....%

(1)

(d) Write $\frac{18}{100}$ as a decimal.

.....

(1)

(e) Work out $\frac{5}{9}$ of 72

.....

(2)

(Total for Question 3 is 6 marks)

35. 4MA0_1FR_que_20180525 Q: 19

Show that $3\frac{3}{8} \div 2\frac{1}{4} = 1\frac{1}{2}$

(Total for Question 19 is 3 marks)

Appendix A

Answers

1. 4MA0_1FR_rms_20150106 Q: 1

Question	Working	Answer	Mark	Notes
(a)		14 026	1	B1
(b)		6500	1	B1
(c)		2000	1	B1 accept two thousand
(d)	650 − 282	368	1	B1
(e)	484 + 346	830	1	B1
				Total 5 marks

2. 4MA0_1FR_rms_20150106 Q: 4

Question	Working	Answer	Mark	Notes
(a)		12, 26	2	B2 B1 for 12; B1 for 26
(b)		16 or 24	1	B1 for 16 or 24 or both
(c)		1, 2, 4, 5, 8, 10, 20, 40	2	B2 cao B1 for any two or more correct −1 mark for incorrect addition(s) ignore repetitions
(d)		29, 37	2	B2 B1 for 29; B1 for 37
				Total 7 marks

3. 4MA0_1FR_rms_20150521 Q: 1

Question	Working	Answer	Mark	Notes
(a)		Six thousand one hundred and thirty seven	1	B1
(b)		7485	1	B1
(c)		90	1	B1 Accept 10s, tens, 9 tens, ninety
(d)		6680	1	B1
(e)		Grease	1	B1 accept 3388
				Total 5 marks

4. 4MA0_1FR_rms_20150521 Q: 7

Q	Working	Answer	Mark	Notes
(a)		Ottawa	1	B1
(b)	34 − −12	46	2	M1 A1 accept −46
(c)	− 16 − 7	− 23	2	M1 A1
				Total 5 marks

5. 4MA0_1FR_rms_20160111 Q: 7

Q	Working	Answer	Mark	Notes
(a)		Nitrogen	1	B1
(b)	or 183 − 34		2	M1
		149		A1 Accept −149
(c)	357 + 39 or −39 − 357		2	M1
		396		A1 Accept −396
				Total 5 marks

6. 4MA0_1FR_rms_20170109 Q: 2

Q	Working	Answer	Mark	Notes
a		Friday	1	B1 F or Fri
b		Twelve thousand and thirty eight	1	B1
c		4900	1	B1
d		9780, 4695	2	B2 B1 for one correct
e	15243 ÷ 1200	13	2	M1 A1 accept 12.7 – 13 providing working seen
f	(9780 + 4853 + 12038 + 15243 + 4695 + 4801 + 11856) ÷ 7 **or** 63266 ÷ 7	9038	2	M1 Full method A1
				Total 9 marks

7. 4MA0_1FR_rms_20170525 Q: 15

Q	Working	Answer	Mark	Notes
a		17 or 19	1	B1 for either or both
b		2, 23	1	B1
c	(60 − 2) ÷ 2	29, 31	2	M1 any complete method
				A1
				Total 4 marks

8. 4MA0_1FR_rms_20180108 Q: 1

Question	Working	Answer	Mark	Notes
(a)		8024	1	B1
(b)		38, 540, 623, 5043	1	B1
(c)(i)		300	2	B1
(ii)		76000		B1

9. 4MA0_1FR_rms_20180108 Q: 6

Q	Working	Answer	Mark	Notes
	51 − −11 or 51 + 11 or −11 − 51	62	2	M1 A1 (accept −62)

10. 4MA0_1FR_rms_20180525 Q: 8

Q	Working	Answer	Mark	Notes
(a)		6	1	B1
(b)		–48	1	B1
(c)		16	1	B1

11. 4MA1_1FR_rms_20180525 Q: 1

Q	Working	Answer	Mark	Notes
a		African buffalo	1	B1 accept buffalo or 725
b		100	1	B1 accept (one) hundreds
c		1192	1	B1 accept −1192
d	800 × 20 ÷ 1000	16	2	M1 ft for any number in the table A1

12. 4MA1_1FR_rms_20180525 Q: 9

Q	Working	Answer	Mark	Notes
a		Alto Campoo	1	B1 Do not accept −8
b		8	1	B1
c	(−7) − 1800 ÷ 300	−13	2	M1 for ±1800 ÷ 300 or ±6 A1

13. 4MA1_1FR_rms_20190522 Q: 1

International GCSE Maths

Apart from question 2d, 18b, 23 (where the mark scheme states otherwise) the correct answer, unless clearly obtained from an incorrect method, should be taken to imply a correct method.

Question	Working	Answer	Mark	Notes
(a) (i)		129	1	B1
(a)(ii)		80	1	B1
(b)(i)		2457	1	B1
(b)(ii)		___4 or ___2	1	B1 4 cards arranged with the 4 or 2 at the end
				Total 4 marks

14. 4MA1_1FR_rms_20200305 Q: 1

International GCSE Maths

Apart from questions 15, 17b, 20, 24 (where the mark scheme states otherwise) the correct answer, unless clearly obtained by an incorrect method, should be taken to imply a correct method

Q	Working	Answer	Mark	Notes
a		8632	1	B1 cao
b		24	1	B1 cao
c		17	1	B1 cao
				Total 3 marks

15. 4MA1_1FR_rms_20210304 Q: 1

International GCSE Maths

Apart from questions 15c, 17, 25 (where the mark scheme states otherwise) the correct answer, unless clearly obtained by an incorrect method, should be taken to imply a correct method

Q	Working	Answer	Mark	Notes
a		Makalu	1	B1 Accept 8485
b		Five thousand eight hundred and ninety five	1	B1
c		800	1	B1 Accept 8 (eight) hundreds, hundreds, 100('s),
d		2077	1	B1 Accept −2077
				Total 4 marks

16. 4MA1_1FR_rms_20220111 Q: 1

International GCSE Maths

Apart from Questions 5b and 24 the correct answer, unless clearly obtained by an incorrect method, should be taken to imply a correct method

Q	Working	Answer	Mark	Notes
(a)(i)		10 or 28	1	B1 accept 10 **or** 28 **or** 10 and 28
(ii)		27	1	B1
(iii)		23	1	B1
(b)(i)		3578	1	B1
(ii)		57 + 38 **or** 37 + 58	1	B1
				Total 5 marks

17. 4MA0_1F_rms_20150521 Q: 1

	Working	Answer	Mark	Notes
(a)		98 384 483 498 530	1	B1
(b)		483	1	B1
(c)		530	1	B1
(d)		432	1	B1 or ft from (a) accept −432
				Total 4 marks

18. 4MA0_1F_rms_20150521 Q: 3

Q	Working	Answer	Mark	Notes
(a)		4800	1	B1
(b)		6000	1	B1 accept 6 thousand(s), 1000, thousand
				Total 2 marks

19. 4MA0_1F_rms_20160111 Q: 1

Question	Working	Answer	Mark	Notes
(a)		Jakarta	1	B1 accept 8943
(b)		eight thousand one hundred and three	1	B1
(c)		8220	1	B1 cao
(d)		3520	1	B1 cao
(e)	3493 + 8220			M1
		11713	2	A1
				Total 6 marks

20. 4MA0_1F_rms_20170525 Q: 2

Q	Working	Answer	Mark	Notes
(a)		elephant	1	B1
(b)		Two thousand five hundred and six	1	B1 Accept mis-spellings if meaning is clear
(c)		70	1	B1 Accept seventy, tens, 10s
(d)		1200	1	B1
(e)		785	1	B1
(f)		540	1	B1
				Total 6 marks

21. 4MA0_1F_rms_20170525 Q: 6

Q	Working	Answer	Mark	Notes
(a)		Yellowknife	1	B1
(b)	$25 - -5$ **or** $25 + 5$ **or** $-5 - 25$			M1 working may be seen on a number line
		30	2	A1 accept -30
(c)	$-11 - 6$			M1 or for an answer of 17 working may be seen on a number line
		-17	2	A1
				Total 5 marks

22. 4MA0_1F_rms_20190110 Q: 1

Apart from Question 18b where the mark scheme states otherwise, the correct answer, unless clearly obtained by an incorrect method, should be taken to imply a correct method.

Question	Working	Answer	Mark	Notes
(a)		Nairobi	1	B1
(b)		8 million	1	B1
(c)		127 000	1	B1 accept −127 000
(d)		602 000	1	B1

23. 4MA1_1F_rms_20200305 Q: 1

Question	Working	Answer	Mark	Notes
(a)		Tanzania	1	B1
(b)		823 000	1	B1
(c)		2410	1	B1 accept −2410
(d)		ten thousand one hundred and twenty	1	B1
				Total 4 marks

24. 4MA1_1F_rms_20201104 Q: 1

International GCSE Maths				
Apart from questions 20(a) (where the mark scheme states otherwise) the correct answer, unless clearly obtained by an incorrect method, should be taken to imply a correct method				
Q	**Working**	**Answer**	**Mark**	**Notes**
(a)		Gabon	1	B1
(b)		11 100	1	B1 accept −11 100
(c)		248 000	1	B1
				Total 3 marks

25. 4MA1_1F_rms_20210304 Q: 1

International GCSE Maths				
Apart from questions 16, 21b, 25bii (where the mark scheme states otherwise) the correct answer, unless clearly obtained by an incorrect method, should be taken to imply a correct method				
Q	**Working**	**Answer**	**Mark**	**Notes**
(a)		Ojos del Salado	1	B1
(b)		8 tens	1	B1 accept 80, tens
(c)		Six thousand and forty six	1	B1 cao
(d)		5100	1	B1 cao
(e)		2370	1	B1 accept –2370
				Total 5 marks

26. 4MA1_1F_rms_20211103 Q: 4

Q	Working	Answer	Mark	Notes
(a)		Chicago	1	B1 Accept misspellings
(b)		16	1	B1 accept –16
(c)	$-1+2\times3$		2	M1 for clearly adding 3 lots of 2 or the sequence – 1, 1, 3, 5
		5		A1
				Total 4 marks

27. 4MA1_1F_rms_20220111 Q: 1

International GCSE Maths				
Apart from question 9c, 13, 21b the correct answer, unless clearly obtained by an incorrect method, should be taken to imply a correct method				
Q	**Working**	**Answer**	**Mark**	**Notes**
(a)		Two thousand and fifty one	1	B1
(b)		1700	1	B1
(c)		1479	1	B1
(d)		1150	1	B1
				Total 4 marks

28. 4MA1_1F_rms_20220111 Q: 20

Q	Working	Answer	Mark	Notes
(a)		(5), 8, 8, 20, x, (24)	3	B3 for (5), 8, 8, 20, x, (24) where x = 21 **or** 22 **or** 23 (B2 for (5), 8, 8, 20, x, (24) where x is blank or **any** value other than 21, 22 or 23) (B1 for a list with a median of 14 **or** a mode of 8 **or** the 3rd and 4th cards having a sum of 28 (ignoring other cards))
(b)	eg 5 × 21 (= 105) **or** 6 × 23 (= 138)		3	M1
	eg 6 × 23 – 5 × 21			M1
		33		A1
				Total 6 marks

29. 4MA0_1FR_rms_20150106 Q: 19

Question	Working	Answer	Mark	Notes
	$\frac{15}{2}-\frac{14}{3}=\frac{45a}{6a}-\frac{28a}{6a}$	shown	3	M1 Correct improper fractions M1 Correct fractions with a common denominator a multiple of 6 A1 dep on M2. Improper fraction required eg $\frac{17}{6}, \frac{34}{12}$
				Alt method M1 $(7)\frac{3}{6}-(4)\frac{4}{6}$ (ie can ignore integer parts) M1 $-\frac{1}{6}$ A1 Improper fraction required eg $\frac{17}{6}, \frac{34}{12}$ **or** $3-\frac{1}{6}$ Answer dep on M2
				Alt method M1 $7\frac{3}{6}-4\frac{4}{6}$ M1 $6\frac{9}{6}-4\frac{4}{6}$ A1 $2\frac{5}{6}$ required before final answer Answer dep on M2
				NB: Follow one strand that gives most marks
				Total 3 marks

30. 4MA0_1FR_rms_20150521 Q: 10

Q	Working	Answer	Mark	Notes
(a)		$\frac{3}{4}\ \frac{13}{16}\ \frac{7}{8}\ \frac{11}{12}$	2	B2 If not B2 then B1 for: • 3 fractions in correct order or • 2 fractions correctly converted to decimals (rounded or truncated) or • 2 fractions expressed as equivalent fractions with denominator of 48 or • $\frac{11}{12}\ \frac{7}{8}\ \frac{13}{16}\ \frac{3}{4}$ (ie in reverse order)
(b)	$\frac{2}{5}\times\frac{7}{6}$ or $\frac{1}{5}\times\frac{7}{3}$	show	2	M1 or $\frac{14a}{35a}\div\frac{30a}{35a}$ ($a\geq 1$; denominators the same and a multiple of 35) A1 (dep on M1) for a fraction equivalent to $\frac{7}{15}$ coming directly from M1 or $\frac{7}{15}$ from a correctly cancelled fraction division
(c)	eg $\frac{2\times 6}{5\times 6}-\frac{1\times 5}{6\times 5}$	show	2	M1 for both fractions correct with a common denominator (a multiple of 30) A1 for $\frac{7}{30}$ from $\frac{12}{30}-\frac{5}{30}$ or any fraction equivalent to $\frac{7}{30}$ from a correct method
				Total 6 marks

31. 4MA0_1FR_rms_20160111 Q: 2

Q	Working	Answer	Mark	Notes
(a)		$\frac{5}{9}$	1	B1
(b)		three squares shaded	1	B1
(c)		0.9	1	B1
(d)	$\frac{3}{25}\times 100$ or 0.12		2	M1
		12		A1
				Total 5 marks

32. 4MA0_1FR_rms_20170109 Q: 10

Q	Working	Answer	Mark	Notes
a	$\frac{2}{9}\times 738$ oe **or** $738 \div 9$ (=82) or 2×738 (= 1476)	164	2	M1 A1
b	$24 - 17 = 7$ **or** $\frac{17}{24}$	$\frac{7}{24}$	2	M1 A1
c	$\frac{10}{21} - \frac{7}{21}$	shown	2	M1 or any 2 equivalent fractions with common denominators eg. $\frac{30}{63} - \frac{21}{63}$ A1 for completion
				Total 6 marks

33. 4MA0_1FR_rms_20180108 Q: 23

Question	Working		Answer	Mark	Notes
	$\frac{5}{8}\times\frac{3}{4}\left(=\frac{15}{32}\right)$	$\frac{5}{8}\times 320$ (= 200) **or** $\left(1-\frac{5}{8}\right)\times 320$ (= 120)	$\frac{23}{32}$	4	M1
	$\left(1-\frac{5}{8}\right)\times\frac{2}{3}\left(=\frac{6}{24}\right)$	$\frac{3}{4}\times$'200' (= 150) oe **and** $\frac{2}{3}\times$ '120' (= 80) oe			M1
	'$\frac{15}{32}$' + '$\frac{6}{24}$' oe	$\frac{\text{'150'+'80'}}{320}$ oe			M1 for a complete method A1 oe

34. 4MA0_1FR_rms_20180525 Q: 3

Q	Working	Answer	Mark	Notes
(a)		10	1	B1
(b)		$2\frac{3}{4}$	1	B1
(c)		30	1	B1
(d)		0.18	1	B1
(e)	5×8 **or** $\frac{360}{9}$	40	2	M1 A1

35. 4MA0_1FR_rms_20180525 Q: 19

Question	Working	Answer	Mark	Notes
	e.g. $\frac{27}{8}\div\frac{9}{4}$, $\frac{27}{8}\div\frac{18}{8}$	$1\frac{1}{2}$	3	M1 for two correct improper fractions
	$\frac{27}{8}\times\frac{4}{9}$ **or** $\frac{4\times 27}{8\times 9}$ **or** $\frac{108}{72}$ or $\frac{27}{8}\div\frac{18}{8}$			M1 accept division of any two correct fractions with a common denominator which is a multiple of 8
				A1 **for correct working leading to** $1\frac{1}{2}$ must show correct cancelling of fractions before multiplication **or** a correct mixed number eg $1\frac{36}{72}$, $1\frac{9}{18}$ **or** a correct improper fraction eg. $\frac{108}{72}$