1.1 Addition and Subtraction: 2-hour Pack

EDEXCEL 1MA1 · Calculator allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A Sunday league football team's goal difference is -4. In their next match they score 2 goals and concede 5 goals.
Work out their new goal difference.

(Total for Question 1 is 2 marks)

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2 Work out the missing number.
___ + 18.6 = 50

(Total for Question 2 is 1 mark)

---

3 Work out the missing number.
___ - 15.3 = 22.7

(Total for Question 3 is 1 mark)

---

4 Work out 578 - 246.

(Total for Question 4 is 1 mark)

---

5 Work out the missing number.
50 - ___ = 30

(Total for Question 5 is 1 mark)

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6 Erin ran 3.75 km before school on Monday and 2.6 km on Tuesday.
Work out the total distance she ran over the two days.

(Total for Question 6 is 2 marks)

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7 Work out -6 - (-9).

(Total for Question 7 is 1 mark)

---

8 Work out -25 + 9.

(Total for Question 8 is 1 mark)

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9 Work out 72 + 59.

(Total for Question 9 is 1 mark)

---

10 Work out 1,000 + 999.

(Total for Question 10 is 1 mark)

---

11 A shop sold 238 tickets in the morning and 197 tickets in the afternoon. How many tickets did the shop sell in total?

(Total for Question 11 is 1 mark)

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12 There are 84 red counters and 37 blue counters in a bag. Work out the total number of counters in the bag.

(Total for Question 12 is 1 mark)

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13 Work out 5,000 - 999.

(Total for Question 13 is 1 mark)

---

14 A school bake sale raised £186 on Saturday and £249 on Sunday. Work out the total amount raised over the weekend.

(Total for Question 14 is 1 mark)

---

15 Chloe buys 3 items costing £4.99, £2.50 and £1.35. She pays with a £20 note.
Work out how much change she should get.

(Total for Question 15 is 3 marks)

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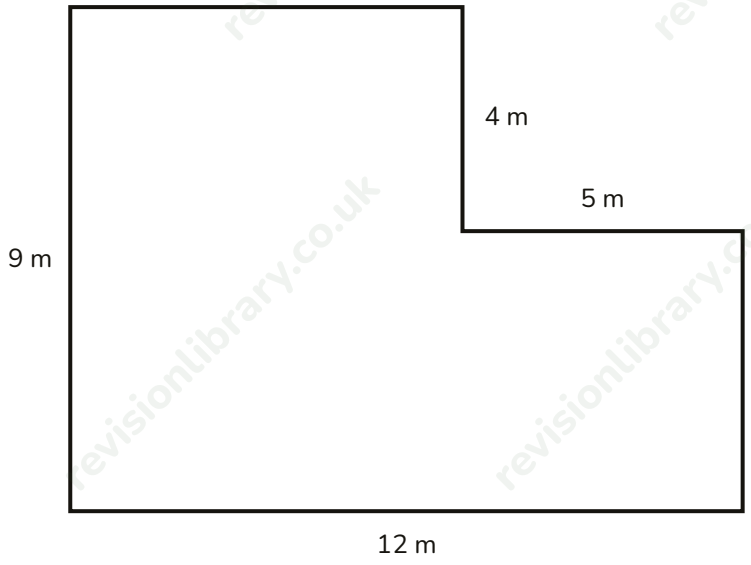
16 Work out (-8) + 15 - 6.

(Total for Question 16 is 2 marks)

---

17 Here is a plan of an L-shaped garden.
The overall garden would be a rectangle 12 m by 9 m, but a rectangular section 5 m by 4 m has been removed from one corner. Only the 12 m, 9 m, 5 m and 4 m side lengths are marked; the other two sides are not labelled.
Work out the perimeter of the L-shaped garden.

Diagram NOT accurately drawn



(Total for Question 17 is 4 marks)

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18 The table shows the number of cakes sold by a bakery each day.

Day	Cakes sold
Monday	128
Tuesday	145
Wednesday	112
Thursday	156
Friday	203

(a) Work out the total number of cakes sold from Monday to Friday. **(2)**

.....

(b) Work out the difference between the highest and the lowest number of cakes sold in a single day. **(2)**

.....

(Total for Question 18 is 4 marks)

---

19 Freya has a £25 gift card for a clothes shop. She buys a jumper for £14.99 and a scarf for £6.50.
Work out how much is left on the gift card.

(Total for Question 19 is 3 marks)

---

20 A submarine is 15 m below sea level. It dives a further 8 m, then rises 22 m.
Work out how far above or below sea level the submarine now is.

(Total for Question 20 is 2 marks)

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21 The temperature at a weather station in the Cairngorms was -6°C at 6am. By 10am it had risen by 11°C. By 4pm it had fallen by 9°C from its 10am value.
Work out the temperature at 4pm.

(Total for Question 21 is 3 marks)

---

22 A school minibus has a mileage reading of 48206 miles. After a school trip the reading is 48583 miles.

(a) Work out how many miles the minibus travelled on the trip. **(2)**

.....

(b) The minibus then makes a return trip of 214 miles. Work out the mileage reading after the return trip. **(2)**

.....

(Total for Question 22 is 4 marks)

---

23 Work out 0.95 + 3.07 + 5.48.

(Total for Question 23 is 2 marks)

---

24 Work out 3,604 + 7,589.

(Total for Question 24 is 2 marks)

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25 Work out 9,000 - 4,567.

(Total for Question 25 is 2 marks)

---

26 Work out 250 + 375 + 125.

(Total for Question 26 is 2 marks)

---

27 A stadium had 4,721 spectators at a football match and 3,896 spectators at a rugby match on the same weekend. Work out the total number of spectators across both matches.

(Total for Question 27 is 2 marks)

---

28 A weather balloon is at an altitude of 7,003 metres. It descends until it is 2,845 metres lower. Work out its new altitude.

(Total for Question 28 is 2 marks)

---

29 A number is added to 68.5 to give a total of 121.2. Work out the missing number.

(Total for Question 29 is 1 mark)

---

30 Over a three-day festival, 180 people attended on Friday, 245 attended on Saturday and 375 attended on Sunday. Work out the total attendance over the three days.

(Total for Question 30 is 2 marks)

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31 Work out 14.6 + 8.375.

(Total for Question 31 is 2 marks)

---

32 Work out 12,403 - 8,979.

(Total for Question 32 is 3 marks)

---

33 Work out 4,206 - 3,789.

(Total for Question 33 is 3 marks)

---

34 Work out 6,875 + 9,248 + 3,902.

(Total for Question 34 is 3 marks)

---

35 A company's three regional offices reported sales of £23,481, £9,647 and £12,905 in one quarter. Work out the total sales across the three offices.

(Total for Question 35 is 3 marks)

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36 A warehouse holds 31,206 tins of paint at the start of the year. By the end of the year, 18,479 tins have been sold. Work out how many tins of paint remain in the warehouse.

(Total for Question 36 is 3 marks)

---

37 Sanjay thinks of a number. He subtracts 7,842 from it and gets 5,196. Work out the number Sanjay started with.

(Total for Question 37 is 2 marks)

---

38 Oluwaseun and Freya take part in a sponsored bike ride for a local hospice.

(a) Oluwaseun raises £84.50 and Freya raises £97.75. Work out the total amount they raise together. **(2)**

(b) Work out how much more than their target of £150 they raised. **(2)**

(Total for Question 38 is 4 marks)

---

39 Kwame is working out 6,234 - 2,758. His working is shown below, but he has made a mistake.

6234
-2758

4576

Work out the correct answer to 6,234 - 2,758, showing your method.

(Total for Question 39 is 2 marks)

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40 The list shows the number of visitors to a local library over four days.
Monday: 42
Tuesday: 58
Wednesday: 35
Thursday: 61
Work out the total number of visitors over the four days.

(Total for Question 40 is 2 marks)

---

41 A theatre has 1,250 seats. The afternoon show sold 732 tickets. The evening show sold 489 more tickets than the afternoon show. How many empty seats were there at the evening show?

(Total for Question 41 is 3 marks)

---

42 Work out 18,605 - 9,897 + 4,203.

(Total for Question 42 is 2 marks)

---

43 A car park at a retail park has 850 spaces. At 9am, 612 cars are parked in the car park. During the morning, 89 cars leave and 143 more cars arrive. Work out how many empty spaces there are in the car park after these changes.

(Total for Question 43 is 3 marks)

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Mark scheme · 1.1 Addition and Subtraction: 2-hour Pack

Question 1

2 - 5 (= -3), or -4 + 2 - 5 (oe) **M1**

-7 cao **A1**

Answer: -7

Question 2

31.4 cao **B1**

Answer: 31.4

Question 3

38 cao (oe 38.0) **B1**

Answer: 38

Question 4

332 cao **B1**

Answer: 332

Question 5

20 cao **B1**

Answer: 20

Question 6

3.75 + 2.6 (oe) **M1**

6.35 (km) cao **A1**

Answer: 6.35 km

Question 7

3 cao **B1**

Answer: 3

Question 8

-16 cao **B1**

Answer: -16

Question 9

131 cao **B1**

Answer: 131

Question 10

1999 cao **B1**

Answer: 1,999

Question 11

435 cao **B1**

Answer: 435

Question 12

121 cao **B1**

Answer: 121

Question 13

4001 cao **B1**

Answer: 4,001

Question 14

435 cao **B1**

Answer: £435

Question 15

4.99 + 2.50 + 1.35 (= 8.84) (oe) **M1**

20 - "their total" (oe), dependent on first M1 **M1**

11.16 (pounds) cao **A1**

Answer: £11.16

Question 16

-8 + 15 (= 7) (oe), or equivalent complete method **M1**

1 cao **A1**

Answer: 1

Question 17

finds the first unlabelled side, 9 - 4 (= 5) (oe) **M1**

finds the second unlabelled side, 12 - 5 (= 7) (oe) **M1**

adds all six sides using a consistent set of values, e.g. 12 + 9 + 5 + 4 + "their 5" + "their 7" (oe) **M1**

42 (m) cao; the alternative method 2 x (12 + 9) = 42 also scores full marks **A1**

Answer: 42 m

Question 18

(a) adding at least three of the five values correctly (oe) **M1**

(a) 744 cao **A1**

(a) Answer: 744

(b) identifies highest (203) and lowest (112) and subtracts (oe) **M1**

(b) 91 cao, ft from their identified highest and lowest if correctly subtracted **A1**

(b) Answer: 91

Question 19

14.99 + 6.50 (= 21.49) (oe) **M1**

25 - "their 21.49" (oe), dependent on first M1 **M1**

3.51 (pounds) cao **A1**

Answer: £3.51

Question 20

-15 - 8 (= -23), or equivalent complete method **M1**

1 m below sea level (-1 m) cao **A1**

Answer: 1 m below sea level (-1 m)

Question 21

-6 + 11 (= 5) (oe) **M1**

"their 5" - 9 (oe), dependent on first M1 **M1**

-4 (°C) cao **A1**

Answer: -4°C

Question 22

(a) 48583 - 48206 (oe) **M1**

(a) 377 (miles) cao **A1**

(a) Answer: 377 miles

(b) 48583 + 214 (oe) **M1**

(b) 48797 cao **A1**

(b) Answer: 48797 miles

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Question 23

correct addition of decimal numbers with alignment or equivalent method **M1**

9.50 cao **A1**

Answer: 9.50

Question 24

correct column addition method shown, with at least one correct carry **M1**

11193 cao **A1**

Answer: 11,193

Question 25

correct column subtraction or decomposition method shown, including at least one borrowing **M1**

4433 cao **A1**

Answer: 4,433

Question 26

a correct method shown to add three numbers, e.g. (250 + 375) + 125 or column addition **M1**

750 cao **A1**

Answer: 750

Question 27

correct column addition method shown, with at least one correct carry **M1**

8617 cao **A1**

Answer: 8,617

Question 28

correct column subtraction or decomposition method shown, including at least one borrow across a zero **M1**

4158 cao **A1**

Answer: 4,158 metres

Question 29

52.7 cao **B1**

Answer: 52.7

Question 30

a correct method shown to add three numbers, e.g. (180 + 245) + 375 or column addition **M1**

800 cao **A1**

Answer: 800

Question 31

correct decimal addition with place values aligned or equivalent method **M1**

22.975 cao **A1**

Answer: 22.975

Question 32

correct column subtraction set up **M1**

correct borrowing/decomposition shown for at least one column **M1**

3424 cao **A1**

Answer: 3,424

Question 33

correct column subtraction set up **M1**

borrowing/decomposition shown for at least one column **M1**

417 cao **A1**

Answer: 417

Question 34

correct addition of two numbers shown (eg 6,875 + 9,248 = 16,123) or equivalent working **M1**

correct addition of the third number to previous total (eg 16,123 + 3,902) or equivalent **M1**

20025 cao **A1**

Answer: 20,025

Question 35

correct addition of two numbers shown (eg 23,481 + 9,647 = 33,128) or equivalent working **M1**

correct addition of the third number to previous total (eg 33,128 + 12,905) or equivalent **M1**

46033 cao **A1**

Answer: £46,033

Question 36

correct column subtraction set up **M1**

correct borrowing/decomposition shown for at least one column **M1**

12727 cao **A1**

Answer: 12,727 tins

Question 37

add 7,842 to 5,196, or equivalent method shown **M1**

13038 cao **A1**

Answer: 13,038

Question 38

(a) correct addition of 84.50 and 97.75 or equivalent **M1**

(a) 182.25 cao **A1**

(a) Answer: £182.25

(b) correct subtraction of 150 from their total raised, using their answer to (a) or equivalent method **M1**

(b) 32.25 cao, ft their total from (a) minus 150 **A1**

(b) Answer: £32.25

Question 39

a correct method shown: column subtraction with at least one correct borrow, or an equivalent valid method such as subtracting in parts or counting on **M1**

3476 cao **A1**

Answer: 3,476

Question 40

correct method combining all four values shown, e.g. partial sums **M1**

196 cao **A1**

Answer: 196

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Question 41

calculate evening tickets sold correctly, e.g. 732 + 489 = 1221	**M1**
set up subtraction to find empty seats 1250 - 1221 or equivalent	**M1**
29 cao	**A1**

Answer: 29

Question 42

correct method shown, performing subtraction and addition in a correct order	**M1**
12911 cao	**A1**

Answer: 12,911

Question 43

calculate the number of cars in the car park after the changes correctly, e.g. 612 - 89 + 143 = 666	**M1**
set up subtraction to find empty spaces 850 - 666 or equivalent	**M1**
184 cao	**A1**

Answer: 184

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