2.3 Addition and Subtraction: Multi-Step Problems: Test Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A delivery van left the depot with 4,275 kg of parcels. At the first stop it delivered 1,480 kg. At the second stop it collected 365 kg. How many kilograms of parcels were in the van after the second stop?

(2)

---

2 Layla has 18,210 marbles. Layla puts 17,680 aside and shares the rest equally between 2 friends.

How many marbles does each friend get?

Answer: ___

(2)

---

3 Ella has 7 more marbles than Callum. Together they have 71 marbles.

How many marbles does Callum have?

Answer: ___

(2)

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4 A sports centre sold 1,275 tickets in the morning and 1,842 tickets in the afternoon. They then refunded 157 tickets because of a cancelled session. How many tickets were sold in total after the refunds?

(3)

---

5 Kofi has 56,555 beads. Kofi is given 18,597 more and then gives away 25,599.

How many beads does Kofi have now?

Answer: ___

(2)

---

6 Estimate 8,698 + 4,970 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

7 A museum had 62,967 visitors in May and 8,257 visitors in June.

How many visitors did it have altogether?

Answer: ___

(1)

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8 Explain your answer: Two routes to school are shown. Route A is 1,375 m and Route B is 1,489 m. If Rupert walks to school and back home each day, which route saves more distance in a week (5 school days) and by how many metres? Show your working to justify your answer.

(2)

---

9 56478 - 55544 =

Answer: ___

(1)

---

10 A museum had 86,803 visitors on Saturday and 22,372 visitors on Sunday.

How many more visitors came on the busier day?

Answer: ___

(2)

---

11 76578 + 82764 =

Answer: ___

(1)

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12 The sum of 4 consecutive even numbers is 76.

What is the smallest of the 4 numbers?

Answer: ___

(2)

---

13 The sum of 5 consecutive odd numbers is 55.

What is the smallest of the 5 numbers?

Answer: ___

(2)

---

14 A car park has 90,217 spaces. 9,374 spaces are full and 275 are reserved.

How many spaces are free?

Answer: ___

(2)

---

15 The sum of 5 consecutive even numbers is 150.

What is the smallest of the 5 numbers?

Answer: ___

(2)

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16 38829 + 52618 =

Answer: ___

(1)

---

17 27518 + 27132 =

Answer: ___

(1)

---

18 A car park has 89,237 spaces. 87,828 spaces are full and 185 are reserved.

How many spaces are free?

Answer: ___

(2)

---

19 George buys 5 buns at £3.17 each and 1 sandwich at £2.22 each. George pays with £20.

How much change does George get?

Answer: £___

(2)

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20 A baker made 2,180 buns. He packed them into boxes of 24. After filling as many full boxes as possible he gave away 15 of the leftover buns to staff. How many buns were left unpacked after giving them away?

(2)

---

21 A festival had 9,352 visitors on Saturday and 84,644 visitors on Sunday.

How many more visitors came on the busier day?

Answer: ___

(1)

---

22 Dev has 50,057 cards. Dev is given 7,330 more and then gives away 17,331.

How many cards does Dev have now?

Answer: ___

(2)

---

23 79731 - 26939 =

Answer: ___

(1)

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24 92795 + 21697 =

Answer: ___

(2)

---

25 Estimate 1,520 + 4,423 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

26 Ella has 14,947 beads. Ella is given 21,432 more and then gives away 31,890.

How many beads does Ella have now?

Answer: ___

(2)

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Mark scheme · 2.3 Addition and Subtraction: Multi-Step Problems: Test Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

Correct method shown: 4,275 - 1,480 then + 365 OR 4,275 + 365 - 1,480	M1
3,160 kg cao	B1

Answer: **3,160**

Question 2

530 seen	M1
265 cao	A1

Answer: **265**

Question 3

71 - 7 = 64 seen	M1
32 cao	A1

Answer: **32**

Question 4

Shows 1,275 + 1,842 - 157	M1
Intermediate addition/subtraction correct	M1
2,960 cao	B1

Answer: **2,960**

Question 5

75,152 seen	M1
49,553 cao	A1

Answer: **49,553**

Question 6

9,000 and 5,000 seen	M1
14,000 cao	A1

Answer: **14,000**

Question 7

71,224 cao	B1

Answer: **71,224**

Question 8

Working shows round trip distances compared correctly, e.g. 2 x 1,375 = 2,750 and 2 x 1,489 = 2,978	M1
Answer: Route A saves 1,140 metres in a week cao	B1

Answer: **Route A saves 1,140**

Question 9

934 cao	B1

Answer: **934**

Question 10

subtraction method seen	M1
64,431 cao	A1

Answer: **64,431**

Question 11

159342 cao	B1

Answer: **159342**

Question 12

uses the mean or tests numbers	M1
16 cao	A1

Answer: **16**

Question 13

uses the mean or tests numbers	M1
7 cao	A1

Answer: **7**

Question 14

9,649 seen	M1
80,568 cao	A1

Answer: **80,568**

Question 15

uses the mean or tests numbers	M1
26 cao	A1

Answer: **26**

Question 16

91447 cao	B1

Answer: **91447**

Question 17

54650 cao	B1

Answer: **54650**

Question 18

88,013 seen	M1
1,224 cao	A1

Answer: **1,224**

Question 19

15.85 seen	M1
£1.93 cao	A1

Answer: **£1.93**

Question 20

Shows 2,180 ÷ 24 = 90 r20 or equivalent, then subtracts the 15 given away	M1
5 cao	B1

Answer: **5**

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Question 21

75,292 cao	**B1**

Answer: **75,292**

Question 22

57,387 seen	**M1**
40,056 cao	**A1**

Answer: **40,056**

Question 23

52792 cao	**B1**

Answer: **52792**

Question 24

column or mental method with not more than one error	**M1**
114492 cao	**A1**

Answer: **114492**

Question 25

2,000 and 4,000 seen	**M1**
6,000 cao	**A1**

Answer: **6,000**

Question 26

36,379 seen	**M1**
4,489 cao	**A1**

Answer: **4,489**

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