1.13 Order of Operations and Multi-Step Problems: 1-hour Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Each tray has 46 spaces. There are 73 cakes to carry.

What is the smallest number of trays needed?

Answer: ___

(2)

---

2 Mateo has 453 stickers. Mateo is given 2,731 more and then gives away 208.

How many stickers does Mateo have now?

Answer: ___

(2)

---

3 Tickets cost £6.30 each. Tom buys 8 and pays with £60.

How much change does Tom get?

Answer: £___

(2)

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4 Layla works out 6 + 5 x 6. Layla says the answer is 66. Is Layla correct? What is the correct answer?

Answer: ___

(2)

---

5 Noah buys 5 balloons at £1 each and 3 lollies at £1.15 each. Noah pays with £10.

How much change does Noah get?

Answer: £___

(2)

---

6 Bella buys 11 erasers costing 5p each and 6 bags costing 50p each.

Write one calculation to find the total cost in pence, then work it out.

Answer: ___ p

(2)

---

7 Dev works out 6 + 5 x 9. Dev says the answer is 99. Is Dev correct? What is the correct answer?

Answer: ___

(2)

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8 Freya has 1,819 beads. Freya puts 1,493 aside and shares the rest equally between 2 friends.

How many beads does each friend get?

Answer: ___

(2)

---

9 George buys 1 puzzle at £3.14 each, 3 notebooks at £2.50 each and 1 lolly at £1.21 each. George pays with £15.

How much change does George get?

Answer: £___

(3)

---

10 A school orders sports equipment. A set of cones costs £12.50 and a set of bibs costs £9.75. The school orders 6 sets of cones and (5 + 3) sets of bibs. They pay with a £200 school voucher. How much of the voucher is left? Show your working and give the answer to the nearest penny.

(6)

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11 Kiran works out 6 + 11 x 11. Kiran says the answer is 187. Is Kiran correct? What is the correct answer?

Answer: ___

(2)

---

12 Each box has 7 spaces. There are 337 eggs to carry.

What is the smallest number of boxes needed?

Answer: ___

(2)

---

13 54 divided by 9 + 8 x 15 =

Answer: ___

(2)

---

14 14 squared =

Answer: ___

(1)

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15 Poppy has 3 boxes with 128 stickers in each box and 1,185 loose stickers.

How many stickers does Poppy have altogether?

Answer: ___

(2)

---

16 Uma has 5,042 stickers. Uma puts 3,817 aside and shares the rest equally between 7 friends.

How many stickers does each friend get?

Answer: ___

(2)

---

17 Poppy buys 2 sandwiches at £3.02 each, 1 lolly at £2.58 each and 1 T-shirt at £2.12 each. Poppy pays with £15.

How much change does Poppy get?

Answer: £___

(3)

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18 Layla works out 6 + 9 x 7. Layla says the answer is 105. Is Layla correct? What is the correct answer?

Answer: ___

(2)

---

19 Aaron works out 6 + 9 x 4. Aaron says the answer is 60. Is Aaron correct? What is the correct answer?

Answer: ___

(2)

---

20 Put one pair of brackets in this calculation to make it correct.

8 + 3 x 6 = 66

Write the calculation with the brackets in.

Answer: ___

(2)

---

21 (8 + 11) x 3 - 6 =

Answer: ___

(1)

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22 13 squared =

Answer: ___

(1)

---

23 Work out $3^2 + 4 \times 5$. Note: 3^2 means 3 squared.

(1)

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Mark scheme · 1.13 Order of Operations and Multi-Step Problems: 1-hour Pack

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

Question 1

73 / 46 = 1 remainder 27 seen	M1
2 cao	A1

Answer: **2**

Question 2

3,184 seen	M1
2,976 cao	A1

Answer: **2,976**

Question 3

6.30 x 8 = 50.40 seen	M1
£9.60 cao	A1

Answer: **£9.60**

Question 4

multiplies before adding	M1
36 cao	A1

Answer: **36**

Question 5

5.00 seen	M1
£1.55 cao	A1

Answer: **£1.55**

Question 6

correct calculation seen	M1
355p cao	A1

Answer: **355p**

Question 7

multiplies before adding	M1
51 cao	A1

Answer: **51**

Question 8

326 seen	M1
163 cao	A1

Answer: **163**

Question 9

3.14 seen	M1
total 11.85 seen	M1
£3.15 cao	A1

Answer: **£3.15**

Question 10

Correctly evaluate number of bib sets: (5 + 3) = 8 seen	M1
Correctly find cost of cones: 6 x 12.50 = 75.00 seen	M1
Correctly find cost of bibs: 8 x 9.75 = 78.00 seen	M1
Add costs correctly: 75.00 + 78.00 = 153.00 seen	M1
Correct subtraction from voucher: 200.00 - 153.00 = 47.00 cao	B1
Final answer given to nearest penny as 47.00 or 47.00 cao	B1

Answer: **47.00**

Question 11

multiplies before adding	M1
127 cao	A1

Answer: **127**

Question 12

337 / 7 = 48 remainder 1 seen	M1
49 cao	A1

Answer: **49**

Question 13

method seen	M1
126 cao	A1

Answer: **126**

Question 14

196 cao	B1

Answer: **196**

Question 15

3 x 128 = 384 seen	M1
1,569 cao	A1

Answer: **1,569**

Question 16

1,225 seen	M1
175 cao	A1

Answer: **175**

Question 17

6.04 seen	M1
total 10.74 seen	M1
£4.26 cao	A1

Answer: **£4.26**

Question 18

multiplies before adding	M1
69 cao	A1

Answer: **69**

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Question 19

multiplies before adding	**M1**
42 cao	**A1**

Answer: **42**

Question 20

the brackets round the addition	**M1**
(8 + 3) x 6 = 66 cao	**A1**

Answer: **(8 + 3) x 6 = 66**

Question 21

51 cao	**B1**

Answer: **51**

Question 22

169 cao	**B1**

Answer: **169**

Question 23

29 cao	**B1**

Answer: **29**

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