1.12 Place Value and the Four Operations: 1-hour Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 2,856 divided by 21.

Use a formal written method.

Answer: ___

(2)

---

2 The temperature in Moscow at 6 am is -1 degrees. By noon it has risen by 9 degrees.

What is the temperature at noon?

Answer: ___ degrees

(2)

---

3 A factory makes 2,345 toys each day. How many toys does it make in 28 days? Show your working.

(3)

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4 Work out 8,294 divided by 29.

Use a formal written method.

Answer: ___

(2)

---

5 Write the number three hundred and fifty-seven thousand three hundred and thirty-seven in digits.

Answer: ___

(1)

---

6 The temperature at 4 pm is 3 degrees. By midnight it has fallen by 19 degrees.

What is the temperature at midnight?

Answer: ___ degrees

(2)

---

7 Round 9,362,322 to the nearest ten.

Answer: ___

(1)

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8 Write the number six hundred and seventy-eight thousand seven hundred and seventy-six in digits.

Answer: ___

(1)

---

9 Work out 8,706 x 90.

Use a formal written method.

Answer: ___

(2)

---

10 What is the digit in the ten thousands place of 7,902,345?

(1)

---

11 A festival had 504,965 visitors on Saturday and 949,226 visitors on Sunday.

How many more visitors came on the busier day?

Answer: ___

(2)

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12 Work out 100 x 17.

Use a formal written method.

Answer: ___

(2)

---

13 Kiran has 33,395 marbles. Kiran is given 41,689 more and then gives away 28,035.

How many marbles does Kiran have now?

Answer: ___

(2)

---

14 The temperature in Quebec at 6 am is -1 degrees. By noon it has risen by 13 degrees.

What is the temperature at noon?

Answer: ___ degrees

(2)

---

15 Round 8,000,528 to the nearest ten.

Answer: ___

(1)

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16 Work out 2,959 divided by 4.

Give your answer as a whole number and a remainder.

Answer: ___

(2)

---

17 Work out 4,328 x 15.

Use a formal written method.

Answer: ___

(2)

---

18 Sofia saves 1,250 each month. How much will she have saved after 3 years?

(2)

---

19 Work out 4,810 divided by 26.

Use a formal written method.

Answer: ___

(2)

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20 Write these numbers in order, starting with the largest.

8,080,999, 8,305,254, 8,266,616, 8,596,353

Answer: ___

(1)

---

21 Decrease 2,500,000 by 12%. Give your answer to the nearest whole number.

(2)

---

22 Round 3,880,452 to the nearest hundred thousand.

Answer: ___

(1)

---

23 Round 3,486,241.

(a) Round it to the nearest 100,000. **(1)**

(b) Round it to the nearest 10,000. **(1)**

---

24 Round 7,605,092 to the nearest ten thousand.

Answer: ___

(1)

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25 Round 6,545,313 to the nearest ten.

Answer: ___

(1)

---

26 What is the value of the digit 8 in 4,631,280?

Answer: ___

(1)

---

27 Estimate 8,131 - 2,133 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

28 A school orders 4,275 pencils. They pack pencils into boxes of 12. How many full boxes can they fill? How many pencils are left over?

(a) Number of full boxes **(1)**

(b) Pencils left over **(1)**

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Mark scheme · 1.12 Place Value and the Four Operations: 1-hour Pack

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

Question 1

a correct method of long division with not more than one error	M1
136 cao	A1

Answer: **136**

Question 2

adds the rise to the negative start	M1
8 degrees cao	A1

Answer: **8 degrees**

Question 3

Shows multiplication method or partitioning, e.g. 2,345 × 20 and × 8	M1
Second correct intermediate step	M1
65,660 cao	B1

Answer: **65,660**

Question 4

a correct method of long division with not more than one error	M1
286 cao	A1

Answer: **286**

Question 5

357,337 cao	B1

Answer: **357,337**

Question 6

subtracts the fall from the start	M1
-16 degrees cao	A1

Answer: **-16 degrees**

Question 7

9,362,320 cao	B1

Answer: **9,362,320**

Question 8

678,776 cao	B1

Answer: **678,776**

Question 9

a formal method with partial products and not more than one arithmetic error	M1
783,540 cao	A1

Answer: **783,540**

Question 10

0 cao	B1

Answer: **0**

Question 11

subtraction method seen	M1
444,261 cao	A1

Answer: **444,261**

Question 12

a formal method with partial products and not more than one arithmetic error	M1
1,700 cao	A1

Answer: **1,700**

Question 13

75,084 seen	M1
47,049 cao	A1

Answer: **47,049**

Question 14

adds the rise to the negative start	M1
12 degrees cao	A1

Answer: **12 degrees**

Question 15

8,000,530 cao	B1

Answer: **8,000,530**

Question 16

short division method seen	M1
739 remainder 3 cao	A1

Answer: **739 remainder 3**

Question 17

a formal method with partial products and not more than one arithmetic error	M1
64,920 cao	A1

Answer: **64,920**

Question 18

Shows 1,250 × 36 or equivalent calculation	M1
45,000 cao	B1

Answer: **45,000**

Question 19

a correct method of long division with not more than one error	M1
185 cao	A1

Answer: **185**

Question 20

8,596,353, 8,305,254, 8,266,616, 8,080,999 cao	B1

Answer: **8,596,353, 8,305,254, 8,266,616, 8,080,999**

Question 21

Shows correct method to find 12% of 2,500,000 or finds 88% directly	M1
2,200,000 cao	B1

Answer: **2,200,000**

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Question 22

3,900,000 cao **B1**

Answer: **3,900,000**

Question 23

(a) 3,500,000 cao **B1**

(a) Answer: **3,500,000**

(b) 3,490,000 cao **B1**

(b) Answer: **3,490,000**

Question 24

7,610,000 cao **B1**

Answer: **7,610,000**

Question 25

6,545,310 cao **B1**

Answer: **6,545,310**

Question 26

80 cao **B1**

Answer: **80**

Question 27

8,000 and 2,000 seen **M1**

6,000 cao **A1**

Answer: **6,000**

Question 28

(a) 356 cao **B1**

(a) Answer: **356**

(b) 3 cao **B1**

(b) Answer: **3**

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