1.12 Place Value and the Four Operations: Test Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write these numbers in words.

(a) 6,304,219 **(1)**

(b) 10,005,007 **(1)**

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2 Write 952,035 in words.

Answer: ___

(1)

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3 What is the value of the digit 7 in 8,312,750?

Answer: ___

(1)

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4 Multiply 8,305 by 407. Show your method and give the final answer.

(2)

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5 Estimate 2,952 - 2,170 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

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6 What is the value of the digit 2 in 5,860,293?

Answer: ___

(1)

---

7 A museum had 693,682 visitors on Saturday and 237,871 visitors on Sunday.

How many more visitors came on the busier day?

Answer: ___

(2)

---

8 Write these numbers in order, starting with the smallest.

9,159,255, 8,703,271, 9,218,361, 8,725,527

Answer: ___

(1)

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9 Work out 11,382 divided by 42.

Use a formal written method.

Answer: ___

(2)

---

10 A zoo had 382,510 visitors in May and 932,332 visitors in June.

How many visitors did it have altogether?

Answer: ___

(2)

---

11 Write the number seven hundred and forty-seven thousand one hundred and nineteen in digits.

Answer: ___

(1)

---

12 Find the value of 1,234,567 ÷ 9 giving the integer quotient and the remainder.

(3)

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13 A car park has 926,329 spaces. 485,826 spaces are full and 833 are reserved.

How many spaces are free?

Answer: ___

(2)

---

14 Write 263,506 in words.

Answer: ___

(1)

---

15 Write the number nine hundred and sixty-four thousand nine hundred and thirty-one in digits.

Answer: ___

(1)

---

16 What is the value of the digit 7 in 9,073,841?

Answer: ___

(1)

---

17 Write 968,300 in words.

Answer: ___

(1)

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18 On Monday the temperature was -12 degrees. On Tuesday it was 5 degrees.

What is the difference between the two temperatures?

Answer: ___ degrees

(1)

---

19 A museum had 202,218 visitors in May and 470,819 visitors in June.

How many visitors did it have altogether?

Answer: ___

(1)

---

20 What number is exactly halfway between -10 and 6?

Answer: ___

(1)

---

21 Explain why 0.75 of a million is 750,000. Show your reasoning.

(3)

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22 Work out 635 x 43.

Use a formal written method.

Answer: ___

(2)

---

23 Write these numbers in order, starting with the smallest.

-4, 0, -7, -1, 5

Answer: ___

(1)

---

24 Round 2,961,197 to the nearest ten.

Answer: ___

(1)

---

25 A stadium had 606,196 fans in May and 523,921 fans in June.

How many fans did it have altogether?

Answer: ___

(2)

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26 A gardener plants 4 rows of trees. Each row will have 1,275 trees. How many trees are planted altogether?

(2)

---

27 What is the value of the digit 2 in 9,284,501?

Answer: ___

(1)

---

28 Round 5,483,650 to the nearest hundred.

Answer: ___

(1)

---

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

5,212,596, 4,907,010, 5,512,268, 5,458,678

Answer: ___

(1)

---

30 Work out 2,756 divided by 13.

Use a formal written method.

Answer: ___

(2)

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Mark scheme · 1.12 Place Value and the Four Operations: Test Pack

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

Question 1

(a) six million, three hundred and four thousand, two hundred and nineteen cao — **B1**

(a) Answer: **six million, three hundred and four thousand, two hundred and nineteen**

(b) ten million, five thousand and seven cao — **B1**

(b) Answer: **ten million, five thousand and seven**

Question 2

nine hundred and fifty-two thousand and thirty-five cao — **B1**

Answer: **nine hundred and fifty-two thousand and thirty-five**

Question 3

700 cao — **B1**

Answer: **700**

Question 4

Correct method shown for long multiplication including multiplication by 400, 0, 7 or equivalent partitioning — **M1**

3,380,135 cao — **B1**

Answer: **3,380,135**

Question 5

3,000 and 2,000 seen — **M1**

1,000 cao — **A1**

Answer: **1,000**

Question 6

200 cao — **B1**

Answer: **200**

Question 7

subtraction method seen — **M1**

455,811 cao — **A1**

Answer: **455,811**

Question 8

8,703,271, 8,725,527, 9,159,255, 9,218,361 cao — **B1**

Answer: **8,703,271, 8,725,527, 9,159,255, 9,218,361**

Question 9

a correct method of long division with not more than one error — **M1**

271 cao — **A1**

Answer: **271**

Question 10

addition method seen — **M1**

1,314,842 cao — **A1**

Answer: **1,314,842**

Question 11

747,119 cao — **B1**

Answer: **747,119**

Question 12

Shows correct division steps or a correct method to find quotient and remainder — **M1**

Shows correct intermediate result — **M1**

137,174 remainder 1 cao — **B1**

Answer: **137,174 remainder 1**

Question 13

486,659 seen — **M1**

439,670 cao — **A1**

Answer: **439,670**

Question 14

two hundred and sixty-three thousand five hundred and six cao — **B1**

Answer: **two hundred and sixty-three thousand five hundred and six**

Question 15

964,931 cao — **B1**

Answer: **964,931**

Question 16

70,000 cao — **B1**

Answer: **70,000**

Question 17

nine hundred and sixty-eight thousand three hundred cao — **B1**

Answer: **nine hundred and sixty-eight thousand three hundred**

Question 18

17 degrees cao — **B1**

Answer: **17 degrees**

Question 19

673,037 cao — **B1**

Answer: **673,037**

Question 20

-2 cao — **B1**

Answer: **-2**

Question 21

Shows multiplying 1,000,000 by 0.75 or converting 0.75 to 3/4 and applying to 1,000,000 — **M1**

Shows correct intermediate calculation, e.g. 1,000,000 × 0.75 = 750,000 or 1,000,000 ÷ 4 = 250,000 then × 3 — **M1**

Conclusion stated: 750,000 cao — **B1**

Answer: **750,000**

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Question 22

a formal method with partial products and not more than one arithmetic error — **M1**

27,305 cao — **A1**

Answer: **27,305**

Question 23

-7, -4, -1, 0, 5 cao — **B1**

Answer: **-7, -4, -1, 0, 5**

Question 24

2,961,200 cao — **B1**

Answer: **2,961,200**

Question 25

addition method seen — **M1**

1,130,117 cao — **A1**

Answer: **1,130,117**

Question 26

Shows multiplication method or repeated addition — **M1**

5,100 cao — **B1**

Answer: **5,100**

Question 27

200,000 cao — **B1**

Answer: **200,000**

Question 28

5,483,700 cao — **B1**

Answer: **5,483,700**

Question 29

5,512,268, 5,458,678, 5,212,596, 4,907,010 cao — **B1**

Answer: **5,512,268, 5,458,678, 5,212,596, 4,907,010**

Question 30

a correct method of long division with not more than one error — **M1**

212 cao — **A1**

Answer: **212**

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