1.12 Place Value and the Four Operations: 30-minute Pack

Total Marks

Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

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

1,742,633, 1,453,864, 1,416,900, 1,799,727

Answer: ___

(1)

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

9,283,536, 8,889,399, 9,373,081, 9,161,296

Answer: ___

(1)

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3 What is the value of the digit 2 in 1,603,592?

Answer: ___

(1)

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4 What is the value of the digit 6 in 8,176,509?

Answer: ___

(1)

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5 Work out 7,632 x 35.

Use a formal written method.

Answer: ___

(2)

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6 Work out 4,452 x 86.

Use a formal written method.

Answer: ___

(2)

---

7 Work out 3,264 divided by 16.

Use a formal written method.

Answer: ___

(2)

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8 What is the value of the digit 4 in 8,596,431?

Answer: ___

(1)

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

What is the temperature at midnight?

Answer: ___ degrees

(2)

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10 Work out 4,166 divided by 18.

Use a formal written method. Give your answer as a whole number and a remainder.

Answer: ___

(2)

---

11 A car park has 632,516 spaces. 594,232 spaces are full and 520 are reserved.

How many spaces are free?

Answer: ___

(2)

---

12 Round 9,390,453 to the nearest ten thousand.

Answer: ___

(1)

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13 Estimate 4,614 - 3,883 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

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14 A library has 12,480 books. They put books into shelves holding 24 books each. How many shelves are needed to hold all the books? If the last shelf can be partly filled, state how many books go on that shelf.

(a) Number of shelves needed **(1)**

.....

(b) Books on the last shelf **(1)**

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15 Explain which is larger and why: 5,600,000 + 45,000 or 5,645,000. Show your reasoning clearly.

(3)

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Mark scheme · 1.12 Place Value and the Four Operations: 30-minute Pack

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

Question 1

1,416,900, 1,453,864, 1,742,633, 1,799,727 cao — **B1**

Answer: **1,416,900, 1,453,864, 1,742,633, 1,799,727**

Question 2

9,373,081, 9,283,536, 9,161,296, 8,889,399 cao — **B1**

Answer: **9,373,081, 9,283,536, 9,161,296, 8,889,399**

Question 3

2 cao — **B1**

Answer: **2**

Question 4

6,000 cao — **B1**

Answer: **6,000**

Question 5

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

267,120 cao — **A1**

Answer: **267,120**

Question 6

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

382,872 cao — **A1**

Answer: **382,872**

Question 7

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

204 cao — **A1**

Answer: **204**

Question 8

400 cao — **B1**

Answer: **400**

Question 9

subtracts the fall from the start — **M1**

-13 degrees cao — **A1**

Answer: **-13 degrees**

Question 10

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

231 remainder 8 cao — **A1**

Answer: **231 remainder 8**

Question 11

594,752 seen — **M1**

37,764 cao — **A1**

Answer: **37,764**

Question 12

9,390,000 cao — **B1**

Answer: **9,390,000**

Question 13

5,000 and 4,000 seen — **M1**

1,000 cao — **A1**

Answer: **1,000**

Question 14

(a) 520 cao — **B1**

(a) Answer: **520**

(b) 24 cao — **B1**

(b) Answer: **24**

Question 15

Shows calculation of 5,600,000 + 45,000 = 5,645,000 or an equivalent comparison — **M1**

Shows idea of comparing place values or recomputing the sum — **M1**

Correct conclusion that they are equal: 5,645,000 cao — **B1**

Answer: **5,645,000**

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