1.12 Place Value and the Four Operations: 2-hour Pack

Total Marks

Calculators not allowed · about 120 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 5,297 divided by 6.

Give your answer as a mixed number in its simplest form.

Answer: ___

(2)

---

2 Estimate 7,283 - 7,018 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

3 Work out 2,574 x 52.

Use a formal written method.

Answer: ___

(2)

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4 Work out 121 x 66.

Use a formal written method.

Answer: ___

(2)

---

5 Use long multiplication. Give your final answer.

(a) 4,208 × 36 **(2)**

.....

---

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

0, -7, -2, 7, 9

Answer: ___

(1)

---

7 Work out 9,276 x 22.

Use a formal written method.

Answer: ___

(2)

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8 Work out 4,727 divided by 42.

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

Answer: ___

(2)

---

9 A festival had 248,890 visitors in May and 702,180 visitors in June.

How many visitors did it have altogether?

Answer: ___

(1)

---

10 Work out 545 x 70.

Use a formal written method.

Answer: ___

(2)

---

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

5,062,033, 4,759,665, 5,202,925, 5,295,446

Answer: ___

(1)

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12 Work out 2,047 x 44.

Use a formal written method.

Answer: ___

(2)

---

13 Round 7,366,695 to the nearest hundred.

Answer: ___

(1)

---

14 Work out 9,504,321 minus 2,718,439.

(1)

---

15 A festival had 625,938 visitors in May and 84,161 visitors in June.

How many visitors did it have altogether?

Answer: ___

(2)

---

16 Estimate 8,475 + 5,320 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

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17 Work out 13,385 divided by 40.

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

Answer: ___

(2)

---

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

What is the temperature at noon?

Answer: ___ degrees

(2)

---

19 Work out 10,179 divided by 39.

Use a formal written method.

Answer: ___

(2)

---

20 Write 265,451 in words.

Answer: ___

(1)

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21 Work out 9,720 divided by 29.

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

Answer: ___

(2)

---

22 Work out 656 x 95.

Use a formal written method.

Answer: ___

(2)

---

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

6,636,165, 6,870,327, 6,521,796, 6,757,981

Answer: ___

(1)

---

24 Zara has 5 boxes with 41,816 coins in each box and 20,959 loose coins.

How many coins does Zara have altogether?

Answer: ___

(2)

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25 Round 4,275,042 to the nearest ten.

Answer: ___

(1)

---

26 A zoo had 748,942 visitors on Saturday and 1,337 visitors on Sunday.

How many more visitors came on the busier day?

Answer: ___

(1)

---

27 Estimate 7,833 + 6,539 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

28 Write the number eight hundred and fifty-one thousand and ten in digits.

Answer: ___

(1)

---

29 Round 1,358,595 to the nearest hundred.

Answer: ___

(1)

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30 Estimate 7,819 - 7,716 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

31 Work out 1,313 divided by 4.

Give your answer as a mixed number in its simplest form.

Answer: ___

(2)

---

32 What is the value of the digit 9 in 9,081,543?

Answer: ___

(1)

---

33 Work out 1,618 divided by 4.

Give your answer as a whole number and a remainder.

Answer: ___

(1)

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34 Estimate 4,278 - 2,230 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

35 Write 222,749 in words.

Answer: ___

(1)

---

36 Write the number one hundred and twenty-nine thousand two hundred in digits.

Answer: ___

(1)

---

37 Olu has 16,101 beads. Olu is given 32,637 more and then gives away 28,497.

How many beads does Olu have now?

Answer: ___

(2)

---

38 Round 3,361,633 to the nearest thousand.

Answer: ___

(1)

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39 Calculate 72,900 ÷ 15. Show any working.

(2)

---

40 Olu has 32,435 beads. Olu is given 18,501 more and then gives away 1,793.

How many beads does Olu have now?

Answer: ___

(2)

---

41 Work out 5,267 divided by 34.

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

Answer: ___

(2)

---

42 Work out 8,064 divided by 42.

Use a formal written method.

Answer: ___

(2)

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43 Estimate 9,848 - 8,358 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

44 Round 9,639,937 to the nearest ten.

Answer: ___

(1)

---

45 Round 6,607,983 to the nearest ten thousand.

Answer: ___

(1)

---

46 Write 239,259 in words.

Answer: ___

(1)

---

47 Write 179,700 in words.

Answer: ___

(1)

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48 Ravi has 21,689 stickers. Ravi puts 21,233 aside and shares the rest equally between 2 friends.

How many stickers does each friend get?

Answer: ___

(2)

---

49 A zoo had 423,259 visitors in May and 614,372 visitors in June.

How many visitors did it have altogether?

Answer: ___

(2)

---

50 Work out 1,395 divided by 6.

Give your answer as a whole number and a remainder.

Answer: ___

(2)

---

51 Write 744,400 in words.

Answer: ___

(1)

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52 Work out 1,804 divided by 22.

Use a formal written method.

Answer: ___

(2)

---

53 Round 8,426,370 to the nearest ten.

Answer: ___

(1)

---

54 Mateo has 9 boxes with 30,783 marbles in each box and 92,731 loose marbles.

How many marbles does Mateo have altogether?

Answer: ___

(2)

---

55 What number is exactly halfway between -11 and 1?

Answer: ___

(1)

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56 Work out 815 x 53.

Use a formal written method.

Answer: ___

(2)

---

57 Write 4,560,000 as a number between 1 and 10 multiplied by a power of ten.

(1)

---

58 Round 9,887,923 to the nearest hundred thousand.

Answer: ___

(1)

---

59 Quinn has 3,168 cards. Quinn puts 2,043 aside and shares the rest equally between 3 friends.

How many cards does each friend get?

Answer: ___

(2)

---

60 Round 4,485,872 to the nearest hundred.

Answer: ___

(1)

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Mark scheme · 1.12 Place Value and the Four Operations: 2-hour Pack

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

Question 1

short division method seen — M1
882 5/6 cao — A1
Answer: **882 5/6**

Question 2

7,000 and 7,000 seen — M1
0 cao — A1
Answer: **0**

Question 3

a formal method with partial products and not more than one arithmetic error — M1
133,848 cao — A1
Answer: **133,848**

Question 4

a formal method with partial products and not more than one arithmetic error — M1
7,986 cao — A1
Answer: **7,986**

Question 5

(a) Correct long multiplication method shown (partial products) with one correct intermediate line — M1
(a) 151,488 cao — B1
(a) Answer: **151,488**

Question 6

-7, -2, 0, 7, 9 cao — B1
Answer: **-7, -2, 0, 7, 9**

Question 7

a formal method with partial products and not more than one arithmetic error — M1
204,072 cao — A1
Answer: **204,072**

Question 8

a correct method of long division with not more than one error — M1
112 remainder 23 cao — A1
Answer: **112 remainder 23**

Question 9

951,070 cao — B1
Answer: **951,070**

Question 10

a formal method with partial products and not more than one arithmetic error — M1
38,150 cao — A1
Answer: **38,150**

Question 11

5,295,446, 5,202,925, 5,062,033, 4,759,665 cao — B1
Answer: **5,295,446, 5,202,925, 5,062,033, 4,759,665**

Question 12

a formal method with partial products and not more than one arithmetic error — M1
90,068 cao — A1
Answer: **90,068**

Question 13

7,366,700 cao — B1
Answer: **7,366,700**

Question 14

6,785,882 cao — B1
Answer: **6,785,882**

Question 15

addition method seen — M1
710,099 cao — A1
Answer: **710,099**

Question 16

8,000 and 5,000 seen — M1
13,000 cao — A1
Answer: **13,000**

Question 17

a correct method of long division with not more than one error — M1
334 remainder 25 cao — A1
Answer: **334 remainder 25**

Question 18

adds the rise to the negative start — M1
7 degrees cao — A1
Answer: **7 degrees**

Question 19

a correct method of long division with not more than one error — M1
261 cao — A1
Answer: **261**

Question 20

two hundred and sixty-five thousand four hundred and fifty-one cao — B1
Answer: **two hundred and sixty-five thousand four hundred and fifty-one**

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Question 21

a correct method of long division with not more than one error — M1
335 remainder 5 cao — A1
Answer: **335 remainder 5**

Question 22

a formal method with partial products and not more than one arithmetic error — M1
62,320 cao — A1
Answer: **62,320**

Question 23

6,870,327, 6,757,981, 6,636,165, 6,521,796 cao — B1
Answer: **6,870,327, 6,757,981, 6,636,165, 6,521,796**

Question 24

5 x 41,816 = 209,080 seen — M1
230,039 cao — A1
Answer: **230,039**

Question 25

4,275,040 cao — B1
Answer: **4,275,040**

Question 26

747,605 cao — B1
Answer: **747,605**

Question 27

8,000 and 7,000 seen — M1
15,000 cao — A1
Answer: **15,000**

Question 28

851,010 cao — B1
Answer: **851,010**

Question 29

1,358,600 cao — B1
Answer: **1,358,600**

Question 30

8,000 and 8,000 seen — M1
0 cao — A1
Answer: **0**

Question 31

short division method seen — M1
328 1/4 cao — A1
Answer: **328 1/4**

Question 32

9,000,000 cao — B1
Answer: **9,000,000**

Question 33

404 remainder 2 cao — B1
Answer: **404 remainder 2**

Question 34

4,000 and 2,000 seen — M1
2,000 cao — A1
Answer: **2,000**

Question 35

two hundred and twenty-two thousand seven hundred and forty-nine cao — B1
Answer: **two hundred and twenty-two thousand seven hundred and forty-nine**

Question 36

129,200 cao — B1
Answer: **129,200**

Question 37

48,738 seen — M1
20,241 cao — A1
Answer: **20,241**

Question 38

3,362,000 cao — B1
Answer: **3,362,000**

Question 39

Correct long division or chunking method shown — M1
4,860 cao — B1
Answer: **4,860**

Question 40

50,936 seen — M1
49,143 cao — A1
Answer: **49,143**

Question 41

a correct method of long division with not more than one error — M1
154 remainder 31 cao — A1
Answer: **154 remainder 31**

Question 42

a correct method of long division with not more than one error — M1
192 cao — A1
Answer: **192**

Question 43

10,000 and 8,000 seen — M1
2,000 cao — A1
Answer: **2,000**

Question 44

9,639,940 cao — B1
Answer: **9,639,940**

Question 45

6,610,000 cao — B1
Answer: **6,610,000**

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Question 46

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

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

Question 47

one hundred and seventy-nine thousand seven hundred cao — **B1**

Answer: **one hundred and seventy-nine thousand seven hundred**

Question 48

456 seen — **M1**

228 cao — **A1**

Answer: **228**

Question 49

addition method seen — **M1**

1,037,631 cao — **A1**

Answer: **1,037,631**

Question 50

short division method seen — **M1**

232 remainder 3 cao — **A1**

Answer: **232 remainder 3**

Question 51

seven hundred and forty-four thousand four hundred cao — **B1**

Answer: **seven hundred and forty-four thousand four hundred**

Question 52

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

82 cao — **A1**

Answer: **82**

Question 53

8,426,370 cao — **B1**

Answer: **8,426,370**

Question 54

9 x 30,783 = 277,047 seen — **M1**

369,778 cao — **A1**

Answer: **369,778**

Question 55

-5 cao — **B1**

Answer: **-5**

Question 56

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

43,195 cao — **A1**

Answer: **43,195**

Question 57

4.56×10^6 or equivalent accepted, but must be in the form (a number between 1 and 10) times a power of ten — **B1**

Answer: **4.56×10^6**

Question 58

9,900,000 cao — **B1**

Answer: **9,900,000**

Question 59

1,125 seen — **M1**

375 cao — **A1**

Answer: **375**

Question 60

4,485,900 cao — **B1**

Answer: **4,485,900**

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