# 1.4 Place Value, Ordering and Rounding: 2-hour Pack

Calculators not allowed · about 120 minutes

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** Round 0.0079574 to 3 significant figures.

**(2)**

**2** Write these numbers in order, smallest first.
2, 0, 5, -8, -7, -6

**(2)**

**3** Round 336.1604 to 2 significant figures.

**(2)**

**4** A lorry carried 77374 kilograms of sand. Round this number to the nearest 1000.

**(1)**

**5** Round 5622614 to 2 significant figures.

**(2)**


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**6** Given that 22 x 13 = 286, work out 0.22 x 0.13.

**(2)**

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**7** In the number 793.485, what is the value of the digit 5?

**(1)**

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**8** Round 0.0099786 to 2 significant figures.

**(2)**

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**9** A town has a population of 29604 people. Round this number to the nearest 1000.

**(1)**

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**10** Write these numbers in order, largest first.
-2, -4, -12, -5, -11, -10

**(2)**

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**11** Round 0.44163 to 3 decimal places.

**(1)**

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**12** Work out 499.4 ÷ 1000.

**(1)**


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**13** Round 7 849 to the nearest 100.

**(2)**

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**14** Write these numbers in order, smallest first.
2.1, 2.7, 2.626, 2.17, 2.22

**(2)**

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**15** Write these numbers in order, smallest first.
6.95, 6.57, 6.16, 6.801, 6.081

**(2)**

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**16** Work out 743.1 x 10.

**(1)**

---

**17** Work out 64.63 x 100.

**(1)**

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**18** In the number 216.539, what is the value of the digit 1?

**(1)**


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**19** In the number 946.538, what is the value of the digit 5?

**(1)**

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**20** A town has a population of 29186 people. Round this number to the nearest 10.

**(1)**

---

**21** Work out 35.2 x 100.

**(1)**

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**22** Write these numbers in order, largest first.
4.65, 4.62, 4.33, 4.925, 4.054

**(2)**

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**23** Write these numbers in order, largest first.

**(a)** 0.7, 0.67, 2/3, 0.701 **(2)**

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**24** Write these numbers in order, largest first.
-10, 5, 0, -1, -12, 8

**(2)**


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**25** Round 51.497 to 1 decimal place.

**(1)**

**26** In the number 842.651, what is the value of the digit 6?

**(1)**

**27** In the number 175.384, what is the value of the digit 7?

**(1)**

**28** Round 69.007 to 1 decimal place.

**(1)**

**29** A town has a population of 13203 people. Round this number to the nearest 10.

**(1)**

**30** Work out 31.42 x 10.

**(1)**

**31** Write these numbers in order, smallest first.
2, -11, -1, 0, 10, -2

**(2)**


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**32** Round 0.22479 to 3 decimal places.

**(1)**

---

**33** Round each number to 2 significant figures.

**(a)** 375 **(1)**

**(b)** 0.0489 **(1)**

**(c)** 8 634 **(1)**

---

**34** Write these numbers in order, smallest first.
-7, 8, 10, 0, 11, -8

**(2)**

---

**35** Write these numbers in order, largest first.
6.7, 6.25, 6.978, 6.63, 6.9

**(2)**

---

**36** In the number 379.816, what is the value of the digit 3?

**(1)**


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**37** Round 82.649 to 1 decimal place.

**(1)**

---

**38** Work out 64.26 ÷ 1000.

**(1)**

---

**39** A lorry carried 50618 kilograms of sand. Round this number to the nearest 10.

**(1)**

---

**40** The crowd at a match was 41990 people. Round this number to the nearest 1000.

**(1)**

---

**41** Round 4.320 to 1 decimal place.

**(1)**

---

**42** The crowd at a match was 44869 people. Round this number to the nearest 10.

**(1)**


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**43** Give each number to 3 significant figures.

**(a)** 12.346 **(1)**

**(b)** 0.00456 **(1)**

**(c)** 9 998 **(1)**

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**44** Write these numbers in order, largest first.
5.598, 5.928, 5.77, 5.29, 5.61

**(2)**

---

**45** Work out 42.2 x 1000.

**(1)**

---

**46** In the number 376.294, what is the value of the digit 9?

**(1)**

---

**47** Write these numbers in order, smallest first.
8.6, 8.29, 8.629, 8.3, 8.8

**(2)**


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**48** Write these numbers in order, smallest first.
9, 7, -6, 10, 6, -7

**(2)**

---

**49** The crowd at a match was 68313 people. Round this number to the nearest 100.

**(1)**

---

**50** Write these numbers in order, smallest first.
-5, 7, -11, -12, 0, 2

**(2)**

---

**51** Write these numbers in order, largest first.
2.02, 2.592, 2.236, 2.173, 2.404

**(2)**

---

**52** Work out 803.2 x 1000.

**(1)**

---

**53** Write the number 6217 in words.

**(1)**


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**54** Write 2/5 as a decimal.

**(1)**

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**55** Write 0.09 as a fraction in its simplest form.

**(1)**

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**56** A charity event collects donations of £128, £96 and £215 from three collection points. By rounding each amount to the nearest £10, estimate the total amount collected. You must show your rounded values.

**(3)**

---

**57** State the value of the digit 6 in 351.6.

**(1)**

---

**58** Round 8.7 to the nearest whole number.

**(1)**

---

**59** Write these numbers in order, starting with the smallest: 0.62, 5/8, 0.6, 0.605

**(2)**


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**60** Round 4.362 to 1 decimal place.

**(2)**

---

**61** Round 29,651 to the nearest 100.

**(2)**

---

**62** Round 0.0837 to 2 significant figures.

**(2)**


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# Mark scheme · 1.4 Place Value, Ordering and Rounding: 2-hour Pack

## Question 1

identifies the first significant figure and looks at the digit after the required place — **M1**

0.00796 cao — **A1**

Answer: **0.00796**

## Question 2

at least four numbers in the correct relative order — **M1**

-8, -7, -6, 0, 2, 5 cao — **A1**

Answer: **-8, -7, -6, 0, 2, 5**

## Question 3

identifies the first significant figure and looks at the digit after the required place — **M1**

340 cao — **A1**

Answer: **340**

## Question 4

77000 cao — **B1**

Answer: **77000**

## Question 5

identifies the first significant figure and looks at the digit after the required place — **M1**

5600000 cao — **A1**

Answer: **5600000**

## Question 6

uses 286 with the decimal places counted (2 + 2 = 4 in total) — **M1**

0.0286 cao — **A1**

Answer: **0.0286**

## Question 7

0.005 cao — **B1**

Answer: **0.005**

## Question 8

identifies the first significant figure and looks at the digit after the required place — **M1**

0.010 cao — **A1**

Answer: **0.010**

## Question 9

30000 cao — **B1**

Answer: **30000**

## Question 10

at least four numbers in the correct relative order — **M1**

-2, -4, -5, -10, -11, -12 cao — **A1**

Answer: **-2, -4, -5, -10, -11, -12**

## Question 11

0.442 cao — **B1**

Answer: **0.442**

## Question 12

0.4994 cao — **B1**

Answer: **0.4994**

## Question 13

identify hundreds and tens: 7 800 with 49 to check or use 7 849 -> look at tens 4 — **M1**

7 800 cao — **A1**

Answer: **7 800**

## Question 14

at least three numbers in the correct relative order or all compared to the same number of decimal places — **M1**

2.1, 2.17, 2.22, 2.626, 2.7 cao — **A1**

Answer: **2.1, 2.17, 2.22, 2.626, 2.7**

## Question 15

at least three numbers in the correct relative order or all compared to the same number of decimal places — **M1**

6.081, 6.16, 6.57, 6.801, 6.95 cao — **A1**

Answer: **6.081, 6.16, 6.57, 6.801, 6.95**

## Question 16

7431 cao — **B1**

Answer: **7431**

## Question 17

6463 cao — **B1**

Answer: **6463**

## Question 18

10 cao — **B1**

Answer: **10**

## Question 19

0.5 cao — **B1**

Answer: **0.5**

## Question 20

29190 cao — **B1**

Answer: **29190**

## Question 21

3520 cao — **B1**

Answer: **3520**

## Question 22

at least three numbers in the correct relative order or all compared to the same number of decimal places — **M1**

4.925, 4.65, 4.62, 4.33, 4.054 cao — **A1**

Answer: **4.925, 4.65, 4.62, 4.33, 4.054**

## Question 23

(a) convert to decimals or compare values: 2/3 = 0.666... or recognise ordering — **M1**

(a) correct order: 0.701, 0.7, 0.67, 2/3 cao — **A1**

(a) Answer: **0.701, 0.7, 0.67, 2/3**


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## Question 24

at least four numbers in the correct relative order **M1**

8, 5, 0, -1, -10, -12 cao **A1**

Answer: **8, 5, 0, -1, -10, -12**

## Question 25

51.5 cao **B1**

Answer: **51.5**

## Question 26

0.6 cao **B1**

Answer: **0.6**

## Question 27

70 cao **B1**

Answer: **70**

## Question 28

69.0 cao **B1**

Answer: **69.0**

## Question 29

13200 cao **B1**

Answer: **13200**

## Question 30

314.2 cao **B1**

Answer: **314.2**

## Question 31

at least four numbers in the correct relative order **M1**

-11, -2, -1, 0, 2, 10 cao **A1**

Answer: **-11, -2, -1, 0, 2, 10**

## Question 32

0.225 cao **B1**

Answer: **0.225**

## Question 33

(a) 380 cao **B1**

(a) Answer: **380**

(b) 0.049 cao **B1**

(b) Answer: **0.049**

(c) 8 600 cao **B1**

(c) Answer: **8 600**

## Question 34

at least four numbers in the correct relative order **M1**

-8, -7, 0, 8, 10, 11 cao **A1**

Answer: **-8, -7, 0, 8, 10, 11**

## Question 35

at least three numbers in the correct relative order or all compared to the same number of decimal places **M1**

6.978, 6.9, 6.7, 6.63, 6.25 cao **A1**

Answer: **6.978, 6.9, 6.7, 6.63, 6.25**

## Question 36

300 cao **B1**

Answer: **300**

## Question 37

82.6 cao **B1**

Answer: **82.6**

## Question 38

0.06426 cao **B1**

Answer: **0.06426**

## Question 39

50620 cao **B1**

Answer: **50620**

## Question 40

42000 cao **B1**

Answer: **42000**

## Question 41

4.3 cao **B1**

Answer: **4.3**

## Question 42

44870 cao **B1**

Answer: **44870**

## Question 43

(a) 12.3 cao **B1**

(a) Answer: **12.3**

(b) 0.00456 cao (already given to 3 SF) **B1**

(b) Answer: **0.00456**

(c) 10 000 cao **B1**

(c) Answer: **10 000**

## Question 44

at least three numbers in the correct relative order or all compared to the same number of decimal places **M1**

5.928, 5.77, 5.61, 5.598, 5.29 cao **A1**

Answer: **5.928, 5.77, 5.61, 5.598, 5.29**

## Question 45

42200 cao **B1**

Answer: **42200**

## Question 46

0.09 cao **B1**

Answer: **0.09**

## Question 47

at least three numbers in the correct relative order or all compared to the same number of decimal places **M1**

8.29, 8.3, 8.6, 8.629, 8.8 cao **A1**

Answer: **8.29, 8.3, 8.6, 8.629, 8.8**


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## Question 48

| | |
|---|---|
| at least four numbers in the correct relative order | M1 |
| -7, -6, 6, 7, 9, 10 cao | A1 |

Answer: **-7, -6, 6, 7, 9, 10**

## Question 49

| | |
|---|---|
| 68300 cao | B1 |

Answer: **68300**

## Question 50

| | |
|---|---|
| at least four numbers in the correct relative order | M1 |
| -12, -11, -5, 0, 2, 7 cao | A1 |

Answer: **-12, -11, -5, 0, 2, 7**

## Question 51

| | |
|---|---|
| at least three numbers in the correct relative order or all compared to the same number of decimal places | M1 |
| 2.592, 2.404, 2.236, 2.173, 2.02 cao | A1 |

Answer: **2.592, 2.404, 2.236, 2.173, 2.02**

## Question 52

| | |
|---|---|
| 803200 cao | B1 |

Answer: **803200**

## Question 53

| | |
|---|---|
| six thousand two hundred seventeen cao | B1 |

Answer: **six thousand two hundred seventeen**

## Question 54

| | |
|---|---|
| 0.4 cao | B1 |

Answer: **0.4**

## Question 55

| | |
|---|---|
| 9/100 cao | B1 |

Answer: **9/100**

## Question 56

| | |
|---|---|
| rounds all three amounts to the nearest 10: 130, 100, 220 (oe) | M1 |
| correct method: 130 + 100 + 220 | M1 |
| 450 (pounds) cao | A1 |

Answer: **£450**

## Question 57

| | |
|---|---|
| six tenths or 0.6 cao | B1 |

Answer: **0.6**

## Question 58

| | |
|---|---|
| 9 cao | B1 |

Answer: **9**

## Question 59

| | |
|---|---|
| converts to comparable decimals: 0.6, 0.605, 0.62, 0.625 oe | M1 |
| correct order cao | A1 |

Answer: **0.6, 0.605, 0.62, 5/8**

## Question 60

| | |
|---|---|
| identifies the tenths digit 3 and the hundredths digit 6 | M1 |
| 4.4 cao | A1 |

Answer: **4.4**

## Question 61

| | |
|---|---|
| identifies 29,651 lies between 29,600 and 29,700, closer to 29,700 | M1 |
| 29,700 cao | A1 |

Answer: **29,700**

## Question 62

| | |
|---|---|
| identifies the first two significant figures as 8, 3 and the next digit as 7 | M1 |
| 0.084 cao | A1 |

Answer: **0.084**


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