2.101 Bar Charts and Pictograms in Depth: 30-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A pictogram shows ice creams sold. Each symbol stands for 5 ice creams. The number of symbols is: Monday: 1 symbols, Tuesday: 5 symbols, Wednesday: 6.5 symbols, Thursday: 6.5 symbols. How many more ice creams are shown for the highest day than the lowest day?

- ☐ A) 37.5
- ☐ B) 28.5
- ☐ C) 5.5
- ☐ D) 32.5
- ☐ E) 27.5

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2 A pictogram shows ice creams sold. Each symbol stands for 4 ice creams. The number of symbols is: Monday: 2.5 symbols, Tuesday: 5 symbols, Wednesday: 7 symbols. How many more ice creams are shown for the highest day than the lowest day?

- ☐ A) 16
- ☐ B) 18
- ☐ C) 10
- ☐ D) 28
- ☐ E) 4.5

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3 A pictogram shows visitors counted. Each symbol stands for 4 visitors. The number of symbols is: Monday: 2 symbols, Tuesday: 4 symbols, Wednesday: 1.5 symbols, Thursday: 2 symbols, Friday: 2.5 symbols. How many more visitors are shown for the highest day than the lowest day?

- ☐ A) 10
- ☐ B) 2.5
- ☐ C) 16
- ☐ D) 9
- ☐ E) 8

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4 A pictogram shows visitors counted. Each symbol stands for 5 visitors. The number of symbols is: Monday: 1 symbols, Tuesday: 4.5 symbols, Wednesday: 6.5 symbols, Thursday: 3.5 symbols, Friday: 3 symbols. How many more visitors are shown for the highest day than the lowest day?

- ☐ A) 32.5
- ☐ B) 25
- ☐ C) 5.5
- ☐ D) 27.5
- ☐ E) 5

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5 A pictogram shows ice creams sold. Each symbol stands for 4 ice creams. The number of symbols is: Monday: 1 symbols, Tuesday: 6 symbols, Wednesday: 2.5 symbols, Thursday: 3 symbols, Friday: 1.5 symbols. How many ice creams are shown altogether?

- ☐ A) 14
- ☐ B) 56
- ☐ C) 57
- ☐ D) 52
- ☐ E) 60

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6 A pictogram shows books borrowed. Each symbol stands for 8 books. The number of symbols is: Monday: 4.5 symbols, Tuesday: 5 symbols, Wednesday: 1 symbols. How many more books are shown for the highest day than the lowest day?

- ☐ A) 40
- ☐ B) 8
- ☐ C) 48
- ☐ D) 4
- ☐ E) 32

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7 A pictogram shows books borrowed. Each symbol stands for 8 books. The number of symbols is: Monday: 6.5 symbols, Tuesday: 1 symbols, Wednesday: 1 symbols, Thursday: 4.5 symbols. How many books are shown altogether?

- ☐ A) 104
- ☐ B) 13
- ☐ C) 112
- ☐ D) 96
- ☐ E) 105

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8 A pictogram shows cakes baked. Each symbol stands for 4 cakes. The number of symbols is: Monday: 2 symbols, Tuesday: 7 symbols, Wednesday: 5 symbols, Thursday: 5 symbols. How many cakes are shown altogether?

- ☐ A) 19
- ☐ B) 77
- ☐ C) 75
- ☐ D) 76
- ☐ E) 80

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9 A pictogram shows books borrowed. Each symbol stands for 20 books. The number of symbols is: Monday: 6 symbols, Tuesday: 2.5 symbols, Wednesday: 1.5 symbols, Thursday: 2.5 symbols. How many books are shown altogether?

- ☐ A) 220
- ☐ B) 250
- ☐ C) 12.5
- ☐ D) 262.5
- ☐ E) 280

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10 A pictogram shows books borrowed. Each symbol stands for 10 books. The number of symbols is: Monday: 6.5 symbols, Tuesday: 3 symbols, Wednesday: 4.5 symbols. How many more books are shown for the highest day than the lowest day?

- ☐ A) 30
- ☐ B) 95
- ☐ C) 35
- ☐ D) 65
- ☐ E) 3.5

---

11 A pictogram shows visitors counted. Each symbol stands for 8 visitors. The number of symbols is: Monday: 2 symbols, Tuesday: 6.5 symbols, Wednesday: 6 symbols, Thursday: 4 symbols. How many more visitors are shown for the highest day than the lowest day?

- ☐ A) 52
- ☐ B) 37
- ☐ C) 4.5
- ☐ D) 32
- ☐ E) 36

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12 A pictogram shows books borrowed. Each symbol stands for 20 books. The number of symbols is: Monday: 1 symbols, Tuesday: 2.5 symbols, Wednesday: 1.5 symbols, Thursday: 3 symbols. How many books are shown altogether?

- [ ] A) 160
- [ ] B) 168
- [ ] C) 180
- [ ] D) 140
- [ ] E) 8

---

13 A pictogram shows cakes baked. Each symbol stands for 2 cakes. The number of symbols is: Monday: 4.5 symbols, Tuesday: 2 symbols, Wednesday: 7 symbols, Thursday: 2.5 symbols, Friday: 5 symbols. How many more cakes are shown for the highest day than the lowest day?

- [ ] A) 10
- [ ] B) 5
- [ ] C) 14
- [ ] D) 9
- [ ] E) 11

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14 A pictogram shows visitors counted. Each symbol stands for 5 visitors. The number of symbols is: Monday: 5 symbols, Tuesday: 1 symbols, Wednesday: 4 symbols, Thursday: 5.5 symbols, Friday: 2.5 symbols. How many visitors are shown altogether?

- [ ] A) 18
- [ ] B) 85
- [ ] C) 91
- [ ] D) 90
- [ ] E) 89

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15 A pictogram shows ice creams sold. Each symbol stands for 5 ice creams. The number of symbols is: Monday: 6.5 symbols, Tuesday: 4 symbols, Wednesday: 7 symbols, Thursday: 1 symbols, Friday: 7 symbols. How many ice creams are shown altogether?

- [ ] A) 130
- [ ] B) 127.5
- [ ] C) 132.5
- [ ] D) 125
- [ ] E) 25.5

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16 A pictogram shows cakes baked. Each symbol stands for 50 cakes. The number of symbols is: Monday: 2 symbols, Tuesday: 2 symbols, Wednesday: 5 symbols, Thursday: 4 symbols, Friday: 4.5 symbols. How many cakes are shown altogether?

- ☐ A) 874
- ☐ B) 17.5
- ☐ C) 875
- ☐ D) 876
- ☐ E) 850

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17 A pictogram shows visitors counted. Each symbol stands for 20 visitors. The number of symbols is: Monday: 5 symbols, Tuesday: 6 symbols, Wednesday: 1.5 symbols, Thursday: 6.5 symbols, Friday: 4.5 symbols. How many visitors are shown altogether?

- ☐ A) 23.5
- ☐ B) 440
- ☐ C) 470
- ☐ D) 471
- ☐ E) 490

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18 A pictogram shows books borrowed. Each symbol stands for 6 books. The number of symbols is: Monday: 4.5 symbols, Tuesday: 1.5 symbols, Wednesday: 7 symbols, Thursday: 3 symbols, Friday: 5 symbols. How many books are shown altogether?

- ☐ A) 120
- ☐ B) 127
- ☐ C) 132
- ☐ D) 21
- ☐ E) 126

---

19 A pictogram shows visitors counted. Each symbol stands for 2 visitors. The number of symbols is: Monday: 4 symbols, Tuesday: 6 symbols, Wednesday: 3 symbols. How many more visitors are shown for the highest day than the lowest day?

- ☐ A) 12
- ☐ B) 3
- ☐ C) 7
- ☐ D) 6
- ☐ E) 5

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20 A pictogram shows cakes baked. Each symbol stands for 20 cakes. The number of symbols is: Monday: 6.5 symbols, Tuesday: 5 symbols, Wednesday: 4.5 symbols. How many more cakes are shown for the highest day than the lowest day?

- [ ] A) 40
- [ ] B) 41
- [ ] C) 90
- [ ] D) 2
- [ ] E) 130

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21 A pictogram shows cakes baked. Each symbol stands for 4 cakes. The number of symbols is: Monday: 3.5 symbols, Tuesday: 4 symbols, Wednesday: 1 symbols, Thursday: 6 symbols, Friday: 6 symbols. How many cakes are shown altogether?

- [ ] A) 20.5
- [ ] B) 82
- [ ] C) 84
- [ ] D) 81
- [ ] E) 80

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22 A pictogram shows visitors counted. Each symbol stands for 4 visitors. The number of symbols is: Monday: 5 symbols, Tuesday: 5 symbols, Wednesday: 3 symbols, Thursday: 3.5 symbols, Friday: 3 symbols. How many visitors are shown altogether?

- [ ] A) 79
- [ ] B) 82
- [ ] C) 78
- [ ] D) 19.5
- [ ] E) 76

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23 A pictogram shows cakes baked. Each symbol stands for 10 cakes. The number of symbols is: Monday: 7 symbols, Tuesday: 3 symbols, Wednesday: 6.5 symbols. How many more cakes are shown for the highest day than the lowest day?

- [ ] A) 4
- [ ] B) 70
- [ ] C) 30
- [ ] D) 40
- [ ] E) 39

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24 A pictogram shows visitors counted. Each symbol stands for 4 visitors. The number of symbols is: Monday: 3.5 symbols, Tuesday: 5 symbols, Wednesday: 2 symbols, Thursday: 4.5 symbols, Friday: 7 symbols. How many more visitors are shown for the highest day than the lowest day?

- ☐ A) 21
- ☐ B) 5
- ☐ C) 20
- ☐ D) 36
- ☐ E) 28

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25 A pictogram shows visitors counted. Each symbol stands for 4 visitors. The number of symbols is: Monday: 6 symbols, Tuesday: 4.5 symbols, Wednesday: 6 symbols, Thursday: 3 symbols. How many visitors are shown altogether?

- ☐ A) 77
- ☐ B) 78
- ☐ C) 80
- ☐ D) 76
- ☐ E) 19.5

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26 A pictogram shows books borrowed. Each symbol stands for 50 books. The number of symbols is: Monday: 7 symbols, Tuesday: 1 symbols, Wednesday: 5.5 symbols, Thursday: 3.5 symbols. How many books are shown altogether?

- ☐ A) 850
- ☐ B) 800
- ☐ C) 900
- ☐ D) 17
- ☐ E) 851

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27 A pictogram shows cakes baked. Each symbol stands for 10 cakes. The number of symbols is: Monday: 1 symbols, Tuesday: 3.5 symbols, Wednesday: 4 symbols. How many cakes are shown altogether?

- ☐ A) 95
- ☐ B) 8.5
- ☐ C) 80
- ☐ D) 85
- ☐ E) 93.5

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28 A pictogram shows visitors counted. Each symbol stands for 4 visitors. The number of symbols is: Monday: 1.5 symbols, Tuesday: 5 symbols, Wednesday: 6 symbols. How many visitors are shown altogether?

- ☐ A) 62.5
- ☐ B) 12.5
- ☐ C) 50
- ☐ D) 52
- ☐ E) 48

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29 A pictogram shows ice creams sold. Each symbol stands for 50 ice creams. The number of symbols is: Monday: 4.5 symbols, Tuesday: 7 symbols, Wednesday: 5.5 symbols, Thursday: 1.5 symbols, Friday: 1 symbols. How many more ice creams are shown for the highest day than the lowest day?

- ☐ A) 350
- ☐ B) 300
- ☐ C) 400
- ☐ D) 6
- ☐ E) 301

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30 A school club chart shows the number of students attending each club: Choir 24, Football 36, Drama 18, Chess 12, Art 20.

(a) Calculate the total number of students attending a club. **(2)**

.....

(b) How many more students go to Football than to Drama? **(1)**

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Mark scheme · 2.101 Bar Charts and Pictograms in Depth: 30-minute Pack

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

Question 1

correct option E (27.5) cao **B1**

Answer: E) 27.5

Question 2

correct option B (18) cao **B1**

Answer: B) 18

Question 3

correct option A (10) cao **B1**

Answer: A) 10

Question 4

correct option D (27.5) cao **B1**

Answer: D) 27.5

Question 5

correct option B (56) cao **B1**

Answer: B) 56

Question 6

correct option E (32) cao **B1**

Answer: E) 32

Question 7

correct option A (104) cao **B1**

Answer: A) 104

Question 8

correct option D (76) cao **B1**

Answer: D) 76

Question 9

correct option B (250) cao **B1**

Answer: B) 250

Question 10

correct option C (35) cao **B1**

Answer: C) 35

Question 11

correct option E (36) cao **B1**

Answer: E) 36

Question 12

correct option A (160) cao **B1**

Answer: A) 160

Question 13

correct option A (10) cao **B1**

Answer: A) 10

Question 14

correct option D (90) cao **B1**

Answer: D) 90

Question 15

correct option B (127.5) cao **B1**

Answer: B) 127.5

Question 16

correct option C (875) cao **B1**

Answer: C) 875

Question 17

correct option C (470) cao **B1**

Answer: C) 470

Question 18

correct option E (126) cao **B1**

Answer: E) 126

Question 19

correct option D (6) cao **B1**

Answer: D) 6

Question 20

correct option A (40) cao **B1**

Answer: A) 40

Question 21

correct option B (82) cao **B1**

Answer: B) 82

Question 22

correct option C (78) cao **B1**

Answer: C) 78

Question 23

correct option D (40) cao **B1**

Answer: D) 40

Question 24

correct option C (20) cao **B1**

Answer: C) 20

Question 25

correct option B (78) cao **B1**

Answer: B) 78

Question 26

correct option A (850) cao **B1**

Answer: A) 850

Question 27

correct option D (85) cao **B1**

Answer: D) 85

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Question 28

correct option C (50) cao **B1**

Answer: C) 50

Question 29

correct option B (300) cao **B1**

Answer: B) 300

Question 30

(a) addition of the numbers seen (24 + 36 + 18 + 12 + 20) oe **M1**

(a) 110 cao **A1**

(a) Answer: 110

(b) 36 - 18 = 18 cao **B1**

(b) Answer: 18

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