ALBERTA MATH 20-3 · UNIT 5 · 10 QUESTIONS

Statistics and Graphs — Practice Test

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1 **A graph of monthly sales shows values of 98 and 102, but its vertical axis runs only from 90 to 105. Why does the second bar look so much larger than the first?**

- **A** The second value is actually twice the first
- **B** The bars are different colours
- **C** The truncated axis exaggerates a small difference of only 4
- **D** The graph should have been a circle graph

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2 **A circle graph of 80 workers shows that 45% take transit. How many workers take transit?**

- A 45
- B 35
- C 44
- D 36

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3 **On a pictograph, each full symbol represents 20 fans. A row has 2 full symbols and 1 half symbol. What value does the row represent?**

- A 50
- B 40
- C 60
- D 20

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4 **The line graph shows store sales for January, February and March in order. What is the mean monthly sales amount?**

A $300

B $400

C $1200

D $500

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5 **Which graph is most appropriate for comparing the numbers of tickets sold for each of five different movies in one weekend?**

A A line graph

B A histogram

C A bar graph

D A circle graph with no labels

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6 **A histogram of wait times, in minutes, has these frequencies: 0-9: 2, 10-19: 6, 20-29: 9, 30-39: 3. How many people waited less than 20 minutes?**

- A 2
- B 6
- C 9
- D 8

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7 **The line graph shows members at a gym in 2019 and in 2023. What was the increase in membership?**

- A 60
- B 40
- C 210
- D 360

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8 **In a bar graph, one bar for the same value is drawn much wider than the others, while all bar heights match their values. Why is this graph misleading?**

- A Wide bars are easier to read
- B The wider bar covers more area, so its value looks larger than the others
- C The graph has a title
- D The axis starts at zero

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9 **A circle graph of a work crew shows Bus at 40%, Car at 30%, and Walk at 20%. What percent is in the Other category?**

- A 20%
- B 30%
- C 10%
- D 40%

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10 **36 red shirts were sold and 12 blue shirts were sold. How many times as many red shirts as blue shirts were sold?**

A 24

B 48

C 2

D 3

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ANSWER KEY

1.	C	**5.**	C	**9.**	C
2.	D	**6.**	D	**10.**	D
3.	A	**7.**	A		
4.	B	**8.**	B		

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