Final Exam — Practice Test

Saskatchewan Foundations of Mathematics 20 • 50 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A pattern begins 5, 9, 13. The term in position 8 is**

ANSWER _____

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2 **In a triangle , side a = 10 , angle A = 30 degrees and angle B = 45 degrees . Side b is approximately**

- A 16.1
- B 14.1
- C 12.1
- D 10

Understand It with Pulse | Flag a mistake

3 **If 4 items cost 5 dollars, then 15 items at the same rate cost, in dollars,**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The data are 30, 10, 30, 20. The mean is**

ANSWER _____

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5 **The solution of $6x + 7 \leq 10$ is**

A $x \geq 0$

B $x \leq 0$

C $x \leq 1$

D $x < 0$

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6 The vertex of $y = (x + 1)^2 + 2$ is

- A (1, 2)
- B (-1, -2)
- C (-1, 2)
- D (1, -2)

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7 A pattern begins 4, 6, 8. The term in position 8 is

ANSWER _____

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8 A triangle has angles 77 degrees and 30 degrees. The third angle, in degrees, is

ANSWER _____

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9 **The rate 7 dollars for 8 items, in dollars per item, is**

- A 0.88
- B 1.14
- C 15
- D 56

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10 **The data are 26, 28, 31, 51, 72. The median is**

ANSWER _____

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11 **The inequality x > 3 is graphed with**

- **A** a closed circle at 3 and shading to the right
- **B** an open circle at 3 and shading to the right
- **C** an open circle at 3 and shading to the left
- **D** a closed circle at 3 and shading to the left

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12 **The vertex of $y = (x + 2)^2 + 4$ is**

- **A** (-2, 4)
- **B** (2, 4)
- **C** (-2, -4)
- **D** (2, -4)

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13 **The sequence 2, 5, 8, 11 continues by adding 3 each time. The term after 11 is**

ANSWER _____

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14 **In a triangle, two angles measure 34 degrees and 90 degrees. The third angle, in degrees, is**

ANSWER _____

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15 **A car travels 180 km in 3 hours. Its speed, in kilometres per hour, is**

ANSWER _____

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16 **For a normal distribution with mean 100 and standard deviation 15, the z-score of a value of 130 is**

ANSWER _____

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17 **The solution of $5x + 4 \leq 17$ is**

- **A** $x \geq 2$
- **B** $x \leq 2$
- **C** $x \leq 3$
- **D** $x < 2$

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18 **The vertex of $y = (x - 4)^2 - 4$ is**

- **A** (-4, -4)
- **B** (4, 4)
- **C** (-4, 4)
- **D** (4, -4)

Understand It with Pulse | Flag a mistake

19 **The statement: If it rains, then the ground is wet. Its contrapositive is**

- **A** if the ground is wet, then it rains
- **B** if it does not rain, then the ground is not wet
- **C** if the ground is not wet, then it does not rain
- **D** it rains and the ground is not wet

Understand It with Pulse | Flag a mistake

20 **In a triangle , side a = 10 , angle A = 45 degrees and angle B = 30 degrees . Side b is approximately**

- **A** 9.1
- **B** 7.1
- **C** 5.1
- **D** 10

Understand It with Pulse | Flag a mistake

21 If 2 items cost 3 dollars, then 6 items at the same rate cost, in dollars,

ANSWER _____

Understand It with Pulse | Flag a mistake

22 The data are 20, 40, 30, 10, 20. The mode is

ANSWER _____

Understand It with Pulse | Flag a mistake

23 The solution of $5x + 3 \leq 25$ is

A $x \geq 4$

B $x \leq 5$

C $x < 4$

D $x \leq 4$

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24 **Solve : $x^2 = 81$. The positive root is**

ANSWER

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25 **A pattern of dots has 1 dot in row 1, 3 dots in row 2, and 5 dots in row 3. Row 4 has**

ANSWER

Understand It with Pulse | Flag a mistake

26 **A triangle has angles 38 degrees and 21 degrees. The third angle, in degrees, is**

ANSWER

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27 **A car travels 240 km in 3 hours. Its speed, in kilometres per hour, is**

ANSWER

Understand It with Pulse | Flag a mistake

28 **For a normal distribution with mean 80 and standard deviation 8, about 68 percent of the data lie between**

A 64 and 96

B 80 and 88

C 72 and 88

D 72 and 80

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29 **A system has constraints x + y is at most 9 . If x = 2 , the largest whole value of y is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **The axis of symmetry of $1(x - 2)^2 + 1$ is**

- **A** x = 2
- **B** x = -2
- **C** x = 1
- **D** y = 2

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31 **Which statement is the contrapositive of: If it snows, then school is closed**

- **A** If school is closed, then it snows
- **B** If it does not snow, then school is not closed
- **C** If school is not closed, then it did not snow
- **D** It snows and school is closed

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32 **Each interior angle of a regular 8-sided polygon, in degrees, is**

ANSWER _____

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33 **A car travels 90 km in 5 hours. Its speed, in kilometres per hour, is**

ANSWER _____

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34 **For a normal distribution with mean 50 and standard deviation 5, the z-score of a value of 60 is**

ANSWER _____

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35 The point (3, 0) satisfies which inequality

- **A** $x + y \leq 3$
- **B** $x + y \geq 6$
- **C** $x - y \leq 0$
- **D** $2x + y \geq 10$

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36 Solve : $x^2 = 36$. The positive root is

ANSWER _____

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37 A pattern begins 5, 8, 11. The term in position 6 is

ANSWER _____

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38 **Each interior angle of a regular 6-sided polygon, in degrees, is**

ANSWER _____

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39 **A quantity of 80 is 20 percent of a whole. The whole is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **The data are 9, 10, 21, 27, 29, 38. The range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A system has constraints x + y is at most 8 . If x = 5 , the largest whole value of y is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **Solve : $x^2 = 9$. The positive root is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **A pattern begins 5, 10, 15. The term in position 7 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **A triangle has angles 58 degrees and 44 degrees. The third angle, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **If 2 items cost 3 dollars, then 15 items at the same rate cost, in dollars,**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **The data are 50, 63, 79, 81, 82. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **The graph of $x \geq 3$ includes the point**

A (1, 0)

B (0, 1)

C (-3, 0)

D (5, 0)

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48 **Solve : $x^2 = 4$. The positive root is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A pattern begins 2, 4, 6. The term in position 6 is**

ANSWER _____

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50 **Two angles are complementary. One measures 26 degrees. The other, in degrees, is**

ANSWER _____

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ANSWER KEY

1.	33	**18.**	D	**35.**	A
2.	B	**19.**	C	**36.**	6
3.	18.75	**20.**	B	**37.**	20
4.	22.5	**21.**	9	**38.**	120
5.	B	**22.**	20	**39.**	400
6.	C	**23.**	D	**40.**	29
7.	18	**24.**	9	**41.**	3
8.	73	**25.**	7	**42.**	3
9.	A	**26.**	121	**43.**	35
10.	31	**27.**	80	**44.**	78
11.	B	**28.**	C	**45.**	22.5
12.	A	**29.**	7	**46.**	79
13.	14	**30.**	A	**47.**	D
14.	56	**31.**	C	**48.**	2
15.	60	**32.**	135	**49.**	12
16.	2	**33.**	18	**50.**	64
17.	B	**34.**	2		

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