Final Exam — Practice Test

Saskatchewan Workplace and Apprenticeship Mathematics 30 • 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 **The equation of a line with slope 4 and y-intercept 7 is**

- A y = 7x + 4
- B y = -4x + 7
- C y = 4x - 7
- D y = 4x + 7

Understand It with Pulse | Flag a mistake

2 **A measurement of 8.2 cm is recorded to the last digit shown. Its precision, in centimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 The odds against an event are 2:3. The probability of the event is

- **A** $\frac{3}{5}$
- **B** $\frac{2}{5}$
- **C** $\frac{2}{3}$
- **D** $\frac{3}{2}$

Understand It with Pulse | Flag a mistake

4 The point (-3, -2) rotated 90 degrees clockwise about the origin becomes

- **A** (2, -3)
- **B** (-2, 3)
- **C** (3, 2)
- **D** (-3, -2)

Understand It with Pulse | Flag a mistake

5 **An item priced at 200 dollars is discounted 50 percent. The sale price, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A magic square row sums to 15 and contains 6 and 4. The missing number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **For the line y = x - 4, the y-intercept is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A part has nominal length 75 mm with tolerance plus or minus 1 mm. The acceptable range is**

- A 75 to 76 mm
- B 74 to 75 mm
- C 73 to 77 mm
- D 74 to 76 mm

Understand It with Pulse | Flag a mistake

9 **The data are 11, 52, 62, 93, 94. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The point (3, 4) reflected across the y-axis is**

- A (3, -4)
- B (-3, -4)
- C (-3, 4)
- D (4, 3)

Understand It with Pulse | Flag a mistake

11 **A business has revenue 10000 dollars and costs 2200 dollars. Its profit, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A puzzle sequence is 6, 12, 18. The term in position 9 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A line with slope 2 is**

- A horizontal
- B vertical
- C decreasing from left to right
- D increasing from left to right

Understand It with Pulse | Flag a mistake

14 **A measurement is recorded as 10 cm to the nearest centimetre. The lowest possible true value, in centimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A spinner has 2 equal sections, 1 of them red. The probability of spinning red is, as a decimal,**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The point (3, 3) reflected across the x-axis is**

A (3, -3)

B (-3, 3)

C (-3, -3)

D (3, 3)

Understand It with Pulse | Flag a mistake

17 **A business has fixed costs 2000 dollars, unit cost 15 dollars and selling price 35 dollars. The break-even number of units is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A number tripled and decreased by 4 equals 20. The number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A line with slope 4 is**

- A horizontal
- B vertical
- C increasing from left to right
- D decreasing from left to right

Understand It with Pulse | Flag a mistake

20 **A ruler marked in millimetres measures a length as 5 cm. The smallest division, in centimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A survey asks for favourite colours: red, blue, red, green, red. The most common answer is**

A red

B blue

C green

D all equally

Understand It with Pulse | Flag a mistake

22 **The point (2, 2) reflected across the x-axis is**

A (-2, 2)

B (-2, -2)

C (2, 2)

D (2, -2)

Understand It with Pulse | Flag a mistake

23 **An item costs 80 dollars and is marked up 60 percent. The selling price, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Which number has digits that add to 10 and a first digit twice the last**

A 442

B 631

C 550

D 721

Understand It with Pulse | Flag a mistake

25 **For the line y = 2x, the y-intercept is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **A part has nominal length 20 mm with tolerance plus or minus 10 mm. The acceptable range is**

- A 20 to 30 mm
- B 10 to 30 mm
- C 10 to 20 mm
- D 0 to 40 mm

Understand It with Pulse | Flag a mistake

27 **The middle value of the ordered data 3, 5, 8, 12, 20 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **The point (-2, 4) reflected across the y-axis is**

A (-2, -4)

B (2, 4)

C (2, -4)

D (4, -2)

Understand It with Pulse | Flag a mistake

29 **An item with cost 200 dollars sells for 400 dollars. The markup, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **In a game, a player scores 2 points for a win and 1 for a draw. After 5 games with 3 wins and 2 draws, the total score is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 The equation of a line with slope 3 and y-intercept 2 is

A y = 2x + 3

B y = 3x + 2

C y = -3x + 2

D y = 3x - 2

Understand It with Pulse | Flag a mistake

32 A true value is 200 and a measured value is 205. The percent error is

ANSWER _____

Understand It with Pulse | Flag a mistake

33 The data are 15, 5, 20, 10, 5. The mode is

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **The point (1, -5) reflected across the y-axis is**

A (1, 5)

B (-1, 5)

C (-1, -5)

D (-5, 1)

Understand It with Pulse | Flag a mistake

35 **Revenue is 4000 dollars and the profit margin is 20 percent. The profit, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A puzzle sequence is 2, 7, 12. The term in position 8 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 For the line y = x - 3, the y-intercept is

ANSWER _____

Understand It with Pulse | Flag a mistake

38 A part has nominal length 150 mm with tolerance plus or minus 2 mm. The acceptable range is

A. 148 to 152 mm

B. 150 to 152 mm

C. 148 to 150 mm

D. 146 to 154 mm

Understand It with Pulse | Flag a mistake

39 The data are 20, 38, 58, 80, 90. The median is

ANSWER _____

Understand It with Pulse | Flag a mistake

40 The point (-5, 0) translated 3 units right and 2 units up is

- A (-2, 2)
- B (-8, 2)
- C (-2, -2)
- D (-5, 0)

Understand It with Pulse | Flag a mistake

41 An employee earns 25 dollars per hour for 40 hours. The gross pay, in dollars, is

ANSWER _____

Understand It with Pulse | Flag a mistake

42 A puzzle sequence is 8, 13, 18. The term in position 8 is

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **A line passes through (1, 2) and (9, 10). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **A part has nominal length 150 mm with tolerance plus or minus 10 mm. The acceptable range is**

A 150 to 160 mm

B 140 to 160 mm

C 140 to 150 mm

D 130 to 170 mm

Understand It with Pulse | Flag a mistake

45 **The data are 23, 38, 48, 66, 79. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **The point (2, 5) reflected across the y-axis is**

A (2, -5)

B (-2, 5)

C (-2, -5)

D (5, 2)

Understand It with Pulse | Flag a mistake

47 **A business has fixed costs 3000 dollars, unit cost 20 dollars and selling price 35 dollars. The break-even number of units is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A puzzle sequence is 8, 12, 16. The term in position 10 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **The equation of a line with slope 2 and y-intercept 3 is**

- **A** y = 3x + 2
- **B** y = -2x + 3
- **C** y = 2x + 3
- **D** y = 2x - 3

Understand It with Pulse | Flag a mistake

50 **A measurement is recorded as 30 cm to the nearest centimetre. The highest possible true value, in centimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	D	**18.**	8	**35.**	800
2.	0.1	**19.**	C	**36.**	37
3.	A	**20.**	0.1	**37.**	-3
4.	B	**21.**	A	**38.**	A
5.	100	**22.**	D	**39.**	58
6.	5	**23.**	128	**40.**	A
7.	-4	**24.**	A	**41.**	1000
8.	D	**25.**	0	**42.**	43
9.	62	**26.**	B	**43.**	1
10.	C	**27.**	8	**44.**	B
11.	7800	**28.**	B	**45.**	48
12.	54	**29.**	200	**46.**	B
13.	D	**30.**	8	**47.**	200
14.	9.5	**31.**	B	**48.**	44
15.	0.5	**32.**	2.5	**49.**	C
16.	A	**33.**	5	**50.**	30.5
17.	100	**34.**	C		

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