Final Exam — Practice Test

Saskatchewan Workplace and Apprenticeship 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 **Using pi equals 3.14, the surface area of a cone with radius 3 cm and slant height 4 cm, in cm², is approximately**

- A 113.04
- B 37.68
- C 65.94
- D 56.52

Understand It with Pulse | Flag a mistake

2 **A car travels 100 km in 2 hours. Its average rate of change of distance, in kilometres per hour, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Monthly income is 2800 dollars and monthly expenses are 2700 dollars. The monthly balance, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An investment of 500 dollars doubles in value. Its final value, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Two rectangles are similar with corresponding sides 8 cm and 12 cm. A side of 24 cm in the first rectangle corresponds to, in centimetres,**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The volume of a rectangular prism 4 m by 3 m by 8 m, in m^3, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A car travels 80 km in 2 hours. Its average rate of change of distance, in kilometres per hour, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A person saves 20 percent of a monthly income of 2500 dollars. The monthly savings, in dollars, are**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Simple interest on 1200 dollars at 4 percent per year for 2 years, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A speed of 36 kilometres per hour, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A rectangular box is 6 cm long, 10 cm wide and 5 cm high. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A line passes through (0, 1) and (5, 11). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A bank charges 15 dollars per month plus 1 dollar per extra transaction. With 8 extra transactions, the monthly charge, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A credit card balance of 1000 dollars is charged 24 percent annual interest. The interest for one month, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A speed of 90 kilometres per hour, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Using pi equals 3.14, the surface area of a cylinder with radius 4 cm and height 3 cm, in cm², is approximately**

A 150.72

B 75.36

C 50.24

D 175.84

Understand It with Pulse | Flag a mistake

17 **A staircase rises 2 metres over a run of 4 metres. Its slope as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **Monthly income is 3600 dollars and monthly expenses are 2400 dollars. The monthly balance, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **An investment of 1000 dollars doubles in value. Its final value, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **On a scale drawing of 1 to 50, a room 8 centimetres long on the drawing is, in real life, in metres,**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A tank holds 2 m^3 of water. Its capacity, in litres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A line with a negative slope goes**

A up from left to right

B down from left to right

C straight across

D straight up

Understand It with Pulse | Flag a mistake

23 **A person saves 15 percent of a monthly income of 2000 dollars. The monthly savings, in dollars, are**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **An amount of 2000 dollars is invested at 10 percent per year, compounded annually. After 3 years, the amount, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Two rectangles are similar with corresponding sides 10 cm and 15 cm. A side of 12 cm in the first rectangle corresponds to, in centimetres,**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **Using pi equals 3.14, the surface area of a cone with radius 3 cm and slant height 8 cm, in cm², is approximately**

A 226.08

B 103.62

C 75.36

D 56.52

Understand It with Pulse | Flag a mistake

27 **Water flows into a tank at 5 litres per minute. After 12 minutes, the volume in the tank, in litres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **A person saves 15 percent of a monthly income of 3000 dollars. The monthly savings, in dollars, are**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **An amount of 2000 dollars is invested at 10 percent per year, compounded annually. After 2 years, the amount, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **A runner covers 100 metres in 20 seconds. His speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **The volume of a rectangular prism 7 m by 8 m by 9 m, in m^3, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **A line passes through (3, 3) and (8, 5). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **Monthly income is 3600 dollars and monthly expenses are 1800 dollars. The monthly balance, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **Simple interest on 1500 dollars at 5 percent per year for 3 years, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **On a map with scale 1 to 500, a distance of 6 cm represents a real distance, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 The volume of a rectangular prism 3 m by 2 m by 9 m, in m^3, is

ANSWER _____

Understand It with Pulse | Flag a mistake

37 A ramp rises 3 m over a horizontal run of 4 m. Its slope is

A $\frac{3}{4}$

B $\frac{4}{3}$

C $\frac{7}{4}$

D $\frac{3}{5}$

Understand It with Pulse | Flag a mistake

38 A bank charges 10 dollars per month plus 1 dollar per extra transaction. With 4 extra transactions, the monthly charge, in dollars, is

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A credit card balance of 1000 dollars is charged 12 percent annual interest. The interest for one month, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **On a map with scale 1 to 100, a distance of 3 cm represents a real distance, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **The volume of a rectangular prism 8 m by 2 m by 6 m, in m^3, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **A line passes through (0, 3) and (5, 13). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 A bank charges 5 dollars per month plus 1 dollar per extra transaction. With 4 extra transactions, the monthly charge, in dollars, is

ANSWER _____

Understand It with Pulse | Flag a mistake

44 A credit card balance of 1200 dollars is charged 24 percent annual interest. The interest for one month, in dollars, is

ANSWER _____

Understand It with Pulse | Flag a mistake

45 Two rectangles are similar with corresponding sides 10 cm and 15 cm. A side of 18 cm in the first rectangle corresponds to, in centimetres,

ANSWER _____

Understand It with Pulse | Flag a mistake

46 The volume of a rectangular prism 3 m by 4 m by 7 m, in m^3, is

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **A line passes through (2, 1) and (6, 3). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A credit card balance of 800 dollars has a minimum payment of 5 percent. The minimum payment, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A loan of 2500 dollars is repaid in 12 equal monthly payments with no interest. Each payment, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **On a map with scale 1 to 200, a distance of 5 cm represents a real distance, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**18.**	1200	**35.**	3000
2.	50	**19.**	2000	**36.**	54
3.	100	**20.**	4	**37.**	A
4.	1000	**21.**	2000	**38.**	14
5.	36	**22.**	B	**39.**	10
6.	96	**23.**	300	**40.**	300
7.	40	**24.**	2662	**41.**	96
8.	500	**25.**	18	**42.**	2
9.	96	**26.**	B	**43.**	9
10.	10	**27.**	60	**44.**	24
11.	300	**28.**	450	**45.**	27
12.	2	**29.**	2420	**46.**	84
13.	23	**30.**	5	**47.**	0.5
14.	20	**31.**	504	**48.**	40
15.	25	**32.**	0.4	**49.**	208.33
16.	D	**33.**	1800	**50.**	1000
17.	0.5	**34.**	225		

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