ALBERTA MATH 10-3 · FINAL EXAM · 50 QUESTIONS

Final Exam — Practice Test

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 graph shows temperature in degrees Fahrenheit against temperature in degrees Celsius. The temperature in degrees Fahrenheit that corresponds to 20°C is**

- A 52°F
- B 60°F
- C 36°F
- D 68°F

Understand It with Pulse | Flag a mistake

2 **A parallelogram shaped tile has a base of 9 m and a height of 5 m. The area of the tile is**

- A 28 m²
- B 22.5 m²
- C 40 m²
- D 45 m²

Understand It with Pulse | Flag a mistake

3 **A square corner on a picture frame measures 90°. The angle is classified as**

- A right
- B acute
- C obtuse
- D reflex

Understand It with Pulse | Flag a mistake

4 **A carpenter cuts a diagonal brace for a rectangular frame. The brace forms a right triangle with legs of 9 ft and 12 ft. The length of the brace is**

- A 10.5 ft
- B 21 ft
- C 15 ft
- D 225 ft

Understand It with Pulse | Flag a mistake

5 **Convert $400 CAD to US dollars. Use 1 CAD = 0.72 USD. The amount, in US dollars, is**

- A $288.00
- B $555.56
- C $472.00
- D $240.00

Understand It with Pulse | Flag a mistake

6 **The most reasonable mass for a paperclip is**

- A 1 kg
- B 100 g
- C 10 g
- D 1 g

Understand It with Pulse | Flag a mistake

7 **A rectangular yard is 15 m long and 10 m wide. Fencing costs $12 per metre. The cost to fence all four sides of the yard is**

- A $300
- B $1800
- C $600
- D $900

Understand It with Pulse | Flag a mistake

8 **Two angles are supplementary. One angle measures 65°. The measure of the other angle is**

- A 115°
- B 25°
- C 125°
- D 295°

Understand It with Pulse | Flag a mistake

9 **A blueprint uses a scale of 1:50. A room measures 8 cm long on the blueprint. The actual length of the room is**

- A 0.4 m
- B 40 m
- C 4.0 m
- D 6.25 m

Understand It with Pulse | Flag a mistake

10 **A cook earns $18.00 per hour. She is paid time and a half for each hour over 8 hours in a day. In one day she works 11 hours. Her gross pay for the day is**

- A $198.00
- B $171.00
- C $144.00
- D $225.00

Understand It with Pulse | Flag a mistake

11 **A ribbon is 36 inches long. The length of the ribbon, in feet, is**

- A 3 ft
- B 2 ft
- C 12 ft
- D 432 ft

Understand It with Pulse | Flag a mistake

12 **A rectangular room is 6 m long and 4 m wide. Flooring costs $25 per m². The cost to cover the floor is**

- A $500
- B $300
- C $600
- D $480

Understand It with Pulse | Flag a mistake

13 **Two angles sit side by side on a straight line. One angle measures 118°. The measure of the angle beside it is**

- A 62°
- B 118°
- C 28°
- D 242°

Understand It with Pulse | Flag a mistake

14 An observer stands 30 m from the base of a building on level ground. The angle of elevation of the top of the building is 50°. The height of the building, to the nearest tenth of a metre, is

- **A** 19.3 m
- **B** 23.0 m
- **C** 35.8 m
- **D** 25.2 m

Understand It with Pulse | Flag a mistake

15 A worker is paid piecework at $2.40 for each item completed. In one day she completes 145 items. Her earnings for the day are

- **A** $290.00
- **B** $324.00
- **C** $360.00
- **D** $348.00

Understand It with Pulse | Flag a mistake

16 **A garden bed measures 4 m by 3 m. The area of the garden bed, in cm², is**

- A 120000 cm²
- B 12000 cm²
- C 1200 cm²
- D 120 cm²

Understand It with Pulse | Flag a mistake

17 **A circular pizza has a diameter of 12 cm. Using 3.14 for π, the area of the pizza is**

- A 452.16 cm²
- B 37.68 cm²
- C 113.04 cm²
- D 56.52 cm²

Understand It with Pulse | Flag a mistake

18 **Two parallel lines are cut by a transversal. An exterior angle measures 95°. Its alternate exterior angle measures**

- A 95°
- B 85°
- C 265°
- D 5°

Understand It with Pulse | Flag a mistake

19 **In triangle ABC shown, angle A measures 27° and side BC has length 11.5 cm. The length of side AC, to the nearest tenth of a centimetre, is**

- A 5.9 cm
- B 10.2 cm
- C 22.6 cm
- D 25.3 cm

Understand It with Pulse | Flag a mistake

20 **Use I = Prt. Find the simple interest on $2 000 at 4% per year for 3 years. The interest is**

- A $80.00
- B $120.00
- C $200.00
- D $240.00

Understand It with Pulse | Flag a mistake

21 **A drill bit is $\frac{3}{8}$ in wide. Expressed in sixteenths of an inch, this width is**

- A $\frac{3}{16}$ in
- B $\frac{5}{16}$ in
- C $\frac{8}{16}$ in
- D $\frac{6}{16}$ in

Understand It with Pulse | Flag a mistake

22 **A square-based pyramid has a base side length of 6 cm and a height of 9 cm. The volume of the pyramid is**

- A 324 cm^3
- B 54 cm^3
- C 108 cm^3
- D 162 cm^3

Understand It with Pulse | Flag a mistake

23 **An isosceles triangle has a vertex angle of 40° and two equal base angles. The measure of each base angle is**

- A 70°
- B 140°
- C 40°
- D 100°

Understand It with Pulse | Flag a mistake

24 **A model car is built to a scale of 1:24. The actual car is 4.8 m long. The length of the model car is**

- **A** 20 cm
- **B** 2.0 cm
- **C** 24 cm
- **D** 115.2 cm

Understand It with Pulse | Flag a mistake

25 **A right triangle has legs of 6 cm and 8 cm. Use $a^2 + b^2 = c^2$. The length of the hypotenuse is**

- **A** 7 cm
- **B** 12 cm
- **C** 14 cm
- **D** 10 cm

Understand It with Pulse | Flag a mistake

26 **The most reasonable length for a family car is**

- A 45 cm
- B 45 m
- C 0.045 m
- D 4.5 m

Understand It with Pulse | Flag a mistake

27 **A cylindrical water tank has a diameter of 2 ft and a height of 3 ft. Using the π key on your calculator, the volume of the tank, to the nearest tenth, is**

- A 37.7 ft^3
- B 3.1 ft^3
- C 9.4 ft^3
- D 18.8 ft^3

Understand It with Pulse | Flag a mistake

28 The sum of the interior angles of a hexagon is

- A 720°
- B 540°
- C 900°
- D 360°

Understand It with Pulse | Flag a mistake

29 Two similar triangles have corresponding sides of length 4 cm and 10 cm. Another side of the smaller triangle has length 7 cm. The length of the corresponding side in the larger triangle is

- A 17.5 cm
- B 2.8 cm
- C 13.0 cm
- D 28.0 cm

Understand It with Pulse | Flag a mistake

30 **Rice is sold in four sizes. Which size is the best buy?**

- **A** 2 kg for $7.00
- **B** 5 kg for $16.00
- **C** 1 kg for $3.80
- **D** 10 kg for $29.00

Understand It with Pulse | Flag a mistake

31 **Using the conversion 1 in = 2.54 cm, a photo that is 10 in wide, in centimetres, is**

- **A** 25.4 cm
- **B** 3.94 cm
- **C** 254 cm
- **D** 12.7 cm

Understand It with Pulse | Flag a mistake

32 **A circular plate has a radius of 7 cm. Using 3.14 for π, the circumference of the plate is**

- A 153.86 cm
- B 43.96 cm
- C 21.98 cm
- D 87.92 cm

Understand It with Pulse | Flag a mistake

33 **An angle on a roof truss measures 91°. The angle is classified as**

- A acute
- B obtuse
- C right
- D straight

Understand It with Pulse | Flag a mistake

34 **A right triangle has legs of 8 m and 15 m. The length of the hypotenuse is**

- A 12 m
- B 17 m
- C 23 m
- D 289 m

Understand It with Pulse | Flag a mistake

35 **A bakery worker earns $15.50 per hour and works 18 hours in one week. Her gross pay for the week is**

- A $255.00
- B $279.00
- C $310.00
- D $232.50

Understand It with Pulse | Flag a mistake

36 Using $F = \frac{9}{5}C + 32$, an outdoor temperature of -5°C, in degrees Fahrenheit, is

- A -9°F
- B 23°F
- C 41°F
- D 32°F

Understand It with Pulse | Flag a mistake

37 A rectangular garden plot is 12 ft long and 8 ft wide. Fencing costs $9 per foot. The cost to fence all four sides of the plot is

- A $864
- B $360
- C $180
- D $288

Understand It with Pulse | Flag a mistake

38 **Two parallel lines are cut by a transversal. A co-interior angle measures 75°. The other co-interior angle on the same side measures**

- A 75°
- B 105°
- C 15°
- D 285°

Understand It with Pulse | Flag a mistake

39 **At the same time of day, a signpost that is 2.4 m tall casts a shadow 1.6 m long, and a building casts a shadow 20 m long. The height of the building is**

- A 13.3 m
- B 30.0 m
- C 22.4 m
- D 48.0 m

Understand It with Pulse | Flag a mistake

40 **A landscaper earns $22.00 per hour. He is paid time and a half for each hour over 8 hours in a day. In one day he works 10 hours. His gross pay for the day is**

- A $220.00
- B $242.00
- C $198.00
- D $176.00

Understand It with Pulse | Flag a mistake

41 **A wrench is sized $\frac{9}{16}$ in. Expressed as a decimal, this size, in inches, is**

- A 0.59 in
- B 0.5625 in
- C 0.916 in
- D 0.625 in

Understand It with Pulse | Flag a mistake

42 **A rectangular sheet is 12 cm long and 8 cm wide. A square with side length 4 cm is cut out of the sheet. The area of the sheet that remains is**

- A 96 cm²
- B 112 cm²
- C 80 cm²
- D 64 cm²

Understand It with Pulse | Flag a mistake

43 **Two angles are supplementary. One angle measures 104°. The other angle measures**

- A 104°
- B 76°
- C 284°
- D 14°

Understand It with Pulse | Flag a mistake

44 **A scale drawing of a deck uses a scale of 1:20. The deck measures 9 cm long on the drawing. The actual length of the deck is**

- A 0.45 m
- B 20 m
- C 1.8 m
- D 18 m

Understand It with Pulse | Flag a mistake

45 **The graph shows the cost of coffee beans against their mass. The unit price per 100 g is**

- A $0.20
- B $2.00
- C $20.00
- D $2.50

Understand It with Pulse | Flag a mistake

46 **A farmer builds a rectangular garden that is 8 m long and 5 m wide. The length of fencing needed to go all the way around the garden is**

- **A** 13 m
- **B** 26 m
- **C** 40 m
- **D** 20 m

Understand It with Pulse | Flag a mistake

47 **A concrete slab is 6 m long, 4 m wide, and 0.25 m thick. Concrete costs $150 per m³. The cost of the concrete for the slab is**

- **A** $3600
- **B** $1800
- **C** $900
- **D** $450

Understand It with Pulse | Flag a mistake

48 **Two angles are complementary. One angle measures 68°. The other angle measures**

A 112°

B 32°

C 22°

D 158°

Understand It with Pulse | Flag a mistake

49 **A rectangular gate is 1.2 m wide and 0.9 m tall. A brace runs diagonally from one corner of the gate to the opposite corner. The length of the brace is**

A 1.0 m

B 2.1 m

C 1.1 m

D 1.5 m

Understand It with Pulse | Flag a mistake

50 **Use I = Prt. An investment of $2 000 at 3% per year earns $120 in simple interest. The time, in years, is**

- **A** 5 years
- **B** 1 year
- **C** 4 years
- **D** 2 years

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.