BRITISH COLUMBIA WORKPLACE MATHEMATICS 11 (MWPM-11) · 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 **A monthly budget has income of 1500 dollars and total expenses of 1750 dollars. The budget shows a**

A surplus of 250 dollars

B deficit of 250 dollars

C surplus of 500 dollars

D deficit of 500 dollars

Understand It with Pulse | Flag a mistake

2 A plant grows from 12 cm to 27 cm in 5 days. The average rate of growth per day is

- **A** 2
- **B** 3
- **C** 4
- **D** 5

Understand It with Pulse | Flag a mistake

3 A fair six sided die is rolled once. The probability of rolling a 5 is

- **A** $\frac{1}{6}$
- **B** $\frac{1}{5}$
- **C** $\frac{1}{3}$
- **D** $\frac{5}{6}$

Understand It with Pulse | Flag a mistake

4 **The surface area of a cube with side length 3 cm is**

- A 18 cm²
- B 27 cm²
- C 36 cm²
- D 54 cm²

Understand It with Pulse | Flag a mistake

5 **A worker earns 20 dollars per hour, works 40 regular hours and 5 overtime hours paid at time and a half. Total pay is**

- A 900
- B 950
- C 1000
- D 1100

Understand It with Pulse | Flag a mistake

6 **On a distance time graph, a flat horizontal segment means the object is**

- A moving fastest
- B not moving
- C speeding up
- D moving backwards

Understand It with Pulse | Flag a mistake

7 **Two fair coins are tossed. The probability of two heads is**

- A $\frac{1}{4}$
- B $\frac{1}{2}$
- C $\frac{3}{4}$
- D 1

Understand It with Pulse | Flag a mistake

8 **The surface area of a cylinder with radius 3 cm and height 4 cm is**

A 24π cm²

B 36π cm²

C 42π cm²

D 48π cm²

Understand It with Pulse | Flag a mistake

9 **1000 dollars invested at 10 percent per year, compounded annually, is worth after 2 years**

A 1100

B 1200

C 1210

D 1300

Understand It with Pulse | Flag a mistake

10 **A phone plan costs 30 dollars plus 0.50 dollars per gigabyte. The cost for 10 gigabytes is**

A 30

B 35

C 40

D 80

Understand It with Pulse | Flag a mistake

11 **The graph shows daily sales for a shop. The day with the highest sales is day**

A 1

B 2

C 3

D 4

Understand It with Pulse | Flag a mistake

12 The volume of a cube with side length 4 cm is

- A 16 cm^3
- B 24 cm^3
- C 48 cm^3
- D 64 cm^3

Understand It with Pulse | Flag a mistake

13 1000 dollars at 10 percent per year for 2 years earns 10 dollars more with compound interest than with simple interest because the compound total is

- A 1200
- B 1210
- C 1220
- D 1300

Understand It with Pulse | Flag a mistake

14 **A news graph has a vertical axis that starts at 90 instead of 0. A small change will look**

- A much larger than it is
- B much smaller than it is
- C exactly the same
- D flat

Understand It with Pulse | Flag a mistake

15 **A shop expects to sell 100 items per day with probability 0.7 and 50 items with probability 0.3. Expected daily sales are**

- A 65
- B 75
- C 85
- D 100

Understand It with Pulse | Flag a mistake

16 **A net of a cube must have how many squares?**

- A 4
- B 5
- C 6
- D 8

Understand It with Pulse | Flag a mistake

17 **A chequing account charges 15 dollars per month. The cost for one year is**

- A 120
- B 150
- C 180
- D 240

Understand It with Pulse | Flag a mistake

18 **An advertisement graph with no axis labels or units should be treated as**

A proof of the claim

B unreliable until checked

C exact data

D a prediction

Understand It with Pulse | Flag a mistake

19 **The mode of 5, 7, 7, 9 and 11 is**

A 5

B 7

C 9

D 11

Understand It with Pulse | Flag a mistake

20 **When a solid is enlarged by a scale factor of 2, its volume is multiplied by**

A 2

B 4

C 6

D 8

Understand It with Pulse | Flag a mistake

21 **Earnings of 2000 dollars are taxed at 15 percent. The tax paid is**

A 200

B 250

C 300

D 350

Understand It with Pulse | Flag a mistake

22 **A taxi charges 3 dollars plus 2 dollars per kilometre. A 9 kilometre ride costs**

- A 19
- B 21
- C 24
- D 27

Understand It with Pulse | Flag a mistake

23 **A survey about workplace safety is given only to managers. The main problem with the survey is**

- A the sample is biased
- B the sample is too large
- C managers answer too fast
- D safety is unimportant

Understand It with Pulse | Flag a mistake

24 **If a length is enlarged by a scale factor of 3, a 5 cm length becomes**

A 8 cm

B 15 cm

C 30 cm

D 45 cm

Understand It with Pulse | Flag a mistake

25 **In a budget, concert tickets and streaming subscriptions are best described as**

A needs

B wants

C investments

D fixed taxes

Understand It with Pulse | Flag a mistake

26 **Which question should be asked first about a graph in an advertisement?**

A What do the axes show and where do they start?

B What colour is the graph?

C How large is the logo?

D Who printed the graph?

Understand It with Pulse | Flag a mistake

27 **The graph shows the number of workplace accidents per month. The month with the most accidents is month**

A 1

B 2

C 3

D 4

Understand It with Pulse | Flag a mistake

28 **The triangle is enlarged by a scale factor of 2. The 5 cm side becomes**

A 7 cm

B 10 cm

C 12 cm

D 25 cm

Understand It with Pulse | Flag a mistake

29 **The graph shows monthly spending in dollars. The month with the highest spending is month**

A 1

B 2

C 3

D 4

Understand It with Pulse | Flag a mistake

30 **A graph with a vertical axis from 90 to 100 makes a rise from 92 to 96 look dramatic, but the real increase is about**

- **A** 4
- **B** 8
- **C** 40
- **D** 80

Understand It with Pulse | Flag a mistake

31 **A deck has 52 cards with 13 hearts. The probability of drawing a heart is**

- **A** $\frac{1}{2}$
- **B** $\frac{1}{4}$
- **C** $\frac{1}{3}$
- **D** $\frac{13}{26}$

Understand It with Pulse | Flag a mistake

32 The volume of a cube with side length 5 cm is

- A 25 cm^3
- B 75 cm^3
- C 125 cm^3
- D 150 cm^3

Understand It with Pulse | Flag a mistake

33 To save 20 percent of a monthly income of 1800 dollars, the amount to save is

- A 180
- B 270
- C 360
- D 450

Understand It with Pulse | Flag a mistake

34 The slope of the line through (2, 1) and (6, 13) is

- A 2
- B 3
- C 4
- D 12

Understand It with Pulse | Flag a mistake

35 If odds in favour are 1 to 3, the probability of success is

- A $\frac{1}{3}$
- B $\frac{1}{4}$
- C $\frac{3}{4}$
- D $\frac{3}{1}$

Understand It with Pulse | Flag a mistake

36 The volume of a cylinder with radius 3 cm and height 2 cm is

- **A** 6π cm³
- **B** 12π cm³
- **C** 18π cm³
- **D** 36π cm³

Understand It with Pulse | Flag a mistake

37 A bank charges a 1.50 dollar fee for each of 6 debit transactions in a month. The total fee is

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A graph in a news story has no source listed. A careful reader should**

A accept it without question

B check the source before trusting it

C ignore the story entirely

D copy the graph for homework

Understand It with Pulse | Flag a mistake

39 **The median of 8, 11, 15, 19 and 22 is**

A 11

B 15

C 19

D 22

Understand It with Pulse | Flag a mistake

40 **A net with one circle and one sector of a circle folds to make a**

A cone

B cylinder

C sphere

D pyramid

Understand It with Pulse | Flag a mistake

41 **A paycheque shows gross pay of 800 dollars and deductions of 120 dollars. Net pay is**

A 660

B 680

C 700

D 720

Understand It with Pulse | Flag a mistake

42 **A worker paints 12 rooms in 4 days. The rate is**

- A 2 rooms per day
- B 3 rooms per day
- C 4 rooms per day
- D 48 rooms per day

Understand It with Pulse | Flag a mistake

43 **A workplace survey finds that 8 out of 10 staff prefer morning shifts. If 50 staff work there, the expected number preferring mornings is**

- A 30
- B 35
- C 40
- D 45

Understand It with Pulse | Flag a mistake

44 **The triangle has legs 9 cm and 12 cm. Its hypotenuse is**

A 15 cm

B 18 cm

C 21 cm

D 108 cm

Understand It with Pulse | Flag a mistake

45 **A goal of 900 dollars saved at 75 dollars per month takes**

A 9

B 10

C 12

D 15

Understand It with Pulse | Flag a mistake

46 The slope of the line $y = -2x + 9$ is

- A -2
- B 2
- C 9
- D -9

Understand It with Pulse | Flag a mistake

47 A coin tossed 100 times lands heads 48 times. The experimental probability of heads is

- A $\frac{48}{100}$
- B $\frac{52}{100}$
- C $\frac{1}{2}$
- D $\frac{48}{52}$

Understand It with Pulse | Flag a mistake

48 **Which solid has exactly one flat circular face and one vertex?**

- A Cone
- B Cylinder
- C Sphere
- D Cube

Understand It with Pulse | Flag a mistake

49 **A worker who earns 16 dollars per hour for 30 hours has gross pay of**

- A 420
- B 450
- C 480
- D 510

Understand It with Pulse | Flag a mistake

50 **At 60 km per hour, the time to travel 120 km is**

A 1 hour

B 2 hours

C 3 hours

D 4 hours

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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