Proportional Reasoning, Unit Analysis and Scale — Practice Test

Saskatchewan Workplace and Apprenticeship Mathematics 20 • 25 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 **On a map with scale 1 to 200, a distance of 2 cm represents a real distance, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A speed of 72 kilometres per hour, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **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

4 **Two rectangles are similar with corresponding sides 4 cm and 6 cm. A side of 24 cm in the first rectangle corresponds to, in centimetres,**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Solve the proportion : $\frac{x}{5} = \frac{2}{10}$. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **On a map with scale 1 to 100, a distance of 2 cm represents a real distance, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Solve the proportion : $\frac{x}{4} = \frac{3}{12}$. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **On a map with scale 1 to 100, a distance of 4 cm represents a real distance, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The ratio 10:15 in lowest terms is**

A 2:3

B 10:15

C 3:2

D 5:7

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

12 At 2 dollars per item, 9 items cost, in dollars,

ANSWER _____

Understand It with Pulse | Flag a mistake

13 A map has a scale of 1 to 1000. A road 3 centimetres long on the map is, in real life, in metres,

ANSWER _____

Understand It with Pulse | Flag a mistake

14 Solve the proportion : $\frac{x}{3} = \frac{4}{12}$. The value of x is

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **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

16 **A photograph is enlarged by a scale factor of 3. A length of 5 centimetres in the photo becomes, in centimetres,**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **At 3 dollars per item, 4 items cost, in dollars,**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A car travels at 108 kilometres per hour. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **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

20 **At 5 dollars per item, 2 items cost, in dollars,**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The ratio 9:12 in lowest terms is**

A 9:12

B 3:4

C 4:3

D 4:6

Understand It with Pulse | Flag a mistake

22 **A cyclist travels at 18 kilometres per hour. Her speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Two triangles are similar. The first has a side of 6 centimetres and the second has the matching side of 9 centimetres. A side of 4 centimetres in the first triangle matches a side of, in centimetres,**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Solve the proportion $\frac{x}{6}$ equals $\frac{5}{10}$. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	400	**10.**	A	**19.**	18
2.	20	**11.**	25	**20.**	10
3.	36	**12.**	18	**21.**	B
4.	36	**13.**	30	**22.**	5
5.	1	**14.**	1	**23.**	5
6.	200	**15.**	4	**24.**	6
7.	10	**16.**	15	**25.**	3
8.	1	**17.**	12		
9.	400	**18.**	30		

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