

CHAPTER-3 | Proportional Reasoning-2

QUIZ
PART-03

1. Viswanath's spice mix uses coriander seeds, red chillies, toor dal, and fenugreek seeds in the ratio:

A. 8 : 4 : 2 : 1
B. 4 : 2 : 1 : 8
C. 8 : 2 : 4 : 1
D. 1 : 2 : 4 : 8

(A)

Explanation : The spice mix is prepared in the ratio 8 : 4 : 2 : 1.

2. In the spice mix ratio 8 : 4 : 2 : 1, the number corresponding to red chillies is:

A. 8
B. 4
C. 2
D. 1

(B)

Explanation : The ratio is Coriander : Red Chillies : Toor Dal : Fenugreek = 8 : 4 : 2 : 1.

3. If Puneet has only 2 red chillies, the scale factor compared to Viswanath's recipe is:

A. 2
B. 1
C. $1/2$
D. $1/4$

(C)

Explanation : Red chillies decrease from 4 to 2, so all ingredients must be multiplied by $1/2$.

4. To keep the same spice mix taste, Puneet should use coriander seeds equal to:

A. 2 spoons
B. 4 spoons
C. 6 spoons
D. 8 spoons

(B)

Explanation : Half of 8 spoons is 4 spoons.

5. The paint mixture for purple colour is in the ratio:

A. 2 : 5 : 3
B. 3 : 2 : 5
C. 2 : 3 : 5
D. 5 : 3 : 2

(C)

Explanation : Red : Blue : White = 2 : 3 : 5.

6. If Yasmin has 10 litres of white paint, she should add red paint equal to:

A. 2 litres
B. 4 litres
C. 6 litres
D. 8 litres

(B)

Explanation : White (5 parts) = 10 litres, so 1 part = 2 litres. Red = 2 parts = 4 litres.

7. If Yasmin has 10 litres of white paint, she should add blue paint equal to:

A. 4 litres
B. 5 litres
C. 6 litres
D. 8 litres

(C)

Explanation : White (5 parts) = 10 litres, so 1 part = 2 litres. Blue = 3 parts = 6 litres.

8. For stronger concrete structures, the ratio of Cement : Sand : Gravel is:

A. 1 : 2 : 3
B. 1 : 1.5 : 3
C. 1 : 3 : 5
D. 2 : 3 : 5

(B)

Explanation : The chapter gives the ratio 1 : 1.5 : 3 for stronger structures.

9. If 3 bags of cement are used in the ratio 1 : 1.5 : 3, the total concrete mixture will be:

A. 13.5 bags
B. 15 bags
C. 16.5 bags
D. 18 bags

(C)

Explanation : Total ratio parts = $1 + 1.5 + 3 = 5.5$. With 3 bags cement, multiply by 3 $\rightarrow 5.5 \times 3 = 16.5$ bags.

10. If A : B = 5 : 7 and B : C = 6 : 11, then A : B : C =

A. 30 : 42 : 55
B. 30 : 42 : 77
C. 35 : 49 : 66
D. 30 : 49 : 77

(B)

Explanation : Make B equal: $5 : 7 = 30 : 42$ and $6 : 11 = 42 : 77$, so A : B : C = 30 : 42 : 77.