Skillswise

Using a formula to find a value - answers

The answers are given in **bold**.

1. Find the value of the perimeter (P) using the formula P = 2L + 2W:

> a. When length (L) = 10 cm and width (W) = 5 cm.
>
> Correct answer: **P = (2 × 10) + (2 × 5) = 20 + 10 = 30 cm**.
>
> b. When length (L) = 15 m and width (W) = 8 m.
>
> Correct answer: **P = (2 × 15) + (2 × 8) = 30 + 16 = 46 m**.
>
> c. When length (L) = 20 cm and width (W) = 10 cm.
>
> Correct answer: **P = (2 × 20) + (2 × 10) = 40 + 20 = 60 cm**.

2. Find the value of the area (A) using the formula A = L × W:

> a. When length (L) = 10 cm and width (W) = 5 cm.
>
> Correct answer: **A = 10 × 5 = 50cm^2.**
>
> b. When length (L) = 15 cm and width (W) = 8 cm.
>
> Correct answer: **A = 15 × 8 = 120 cm^2**.
>
> c. When length (L) = 20 m and width (W) = 10 m.
>
> Correct answer: **A = 20 × 10 = 200 m^2**.

3. Find the value of the distance (D) using the formula D = S × T:

> a. When speed (S) = 20 mph and time (T) = 2 hours.
>
> Correct answer: **D = 20 × 2 = 40 miles**.
>
> b. When speed (S) = 30 mph and time (T) = 3 hours.
>
> Correct answer: **D = 30 × 3 = 90 miles**.
>
> c. When speed (S) = 70 mph and time (T) = 2 hours.
>
> Correct answer: **D = 70 × 2 = 140 miles**.