



Name: _____

Date: _____

Volume Formulas

Solve for x. Show your work.

1. $l = 9 \text{ { cm}}, w = 11 \text{ { cm}}, h = 6 \text{ { cm}}$

2. $l = 6 \text{ { mm}}, w = 11 \text{ { mm}}, h = 11 \text{ { mm}}$

3. $l = 10 \text{ { dm}}, w = 8 \text{ { dm}}, h = 12 \text{ { dm}}$

4. $l = 12 \text{ { mm}}, w = 6 \text{ { mm}}, h = 9 \text{ { mm}}$

5. $l = 5 \text{ { cm}}, w = 9 \text{ { cm}}, h = 10 \text{ { cm}}$

6. $l = 12 \text{ { cm}}, w = 10 \text{ { cm}}, h = 4 \text{ { cm}}$

7. $l = 9 \text{ { mm}}, w = 8 \text{ { mm}}, h = 12 \text{ { mm}}$

8. $l = 5 \text{ { mm}}, w = 11 \text{ { mm}}, h = 3 \text{ { mm}}$



Volume Formulas – Answer Key

1. $l = 9 \{ \text{cm} \}$, $w = 11 \{ \text{cm} \}$, $h = 6 \{ \text{cm} \}$

594

2. $l = 6 \{ \text{mm} \}$, $w = 11 \{ \text{mm} \}$, $h = 11 \{ \text{mm} \}$

3. $l = 10 \{ \text{dm} \}$, $w = 8 \{ \text{dm} \}$, $h = 12 \{ \text{dm} \}$

960

4. $l = 12 \{ \text{mm} \}$, $w = 6 \{ \text{mm} \}$, $h = 9 \{ \text{mm} \}$

648

5. $l = 5 \{ \text{cm} \}$, $w = 9 \{ \text{cm} \}$, $h = 10 \{ \text{cm} \}$

450

6. $l = 12 \{ \text{cm} \}$, $w = 10 \{ \text{cm} \}$, $h = 4 \{ \text{cm} \}$

480

7. $l = 9 \{ \text{mm} \}$, $w = 8 \{ \text{mm} \}$, $h = 12 \{ \text{mm} \}$

864

8. $l = 5 \{ \text{mm} \}$, $w = 11 \{ \text{mm} \}$, $h = 3 \{ \text{mm} \}$

165