Geometry Formulas

Section 2.14

Formulas

- Perimeter of a Triangle: $P = a + b + c$

- Area of a rectangle: $A = l \bullet w$

- Volume of a box: $V = l \bullet w \bullet h$

Examples

1.) Find the perimeter of a triangle with sides of length 3, 4, 5:

$$P = a + b + c$$
$$P = 3 + 4 + 5 = \boxed{12}$$

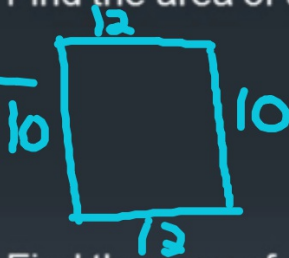2.) Find the perimeter of a triangle with sides of length 2, 2, 3:

$$P = 2 + 2 + 3 = \boxed{7}$$

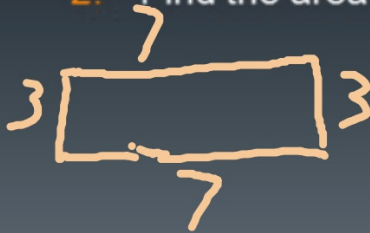$$\rightarrow P = 10 + 12 + 10 + 12 = \boxed{44}$$

Examples

1. Find the area of a rectangle with length 10 and width 12:

$$A = l \cdot w$$
$$A = 10 \cdot 12 = \boxed{120}$$

2. Find the area of a rectangle with length 3 and width 7:

$$A = 3 \cdot 7 = \boxed{21}$$
$$P = 3 + 7 + 3 + 7 = \boxed{20}$$

Examples

1.) Find the volume of a box with sides length of 6, 7, 8:

$$V = \ell \cdot w \cdot h$$
$$V = 6 \cdot 7 \cdot 8 = 336$$

2.) Find the volume of a box with sides length of 3, 12, 14:

$$V = 3 \cdot 12 \cdot 14 = 504$$

Classwork

- Wkst 1.3 A # 7-27

UNIT 2 Test tomorrow

- 1.1: Variables
- 1.2: Exponents
- 1.3: Order of Operations
- 1.5: Problem Solving with Models
- Formulas

Homework

- Pg 54 # 1-17, 22
- Pg 57 # 1-11, 14-16