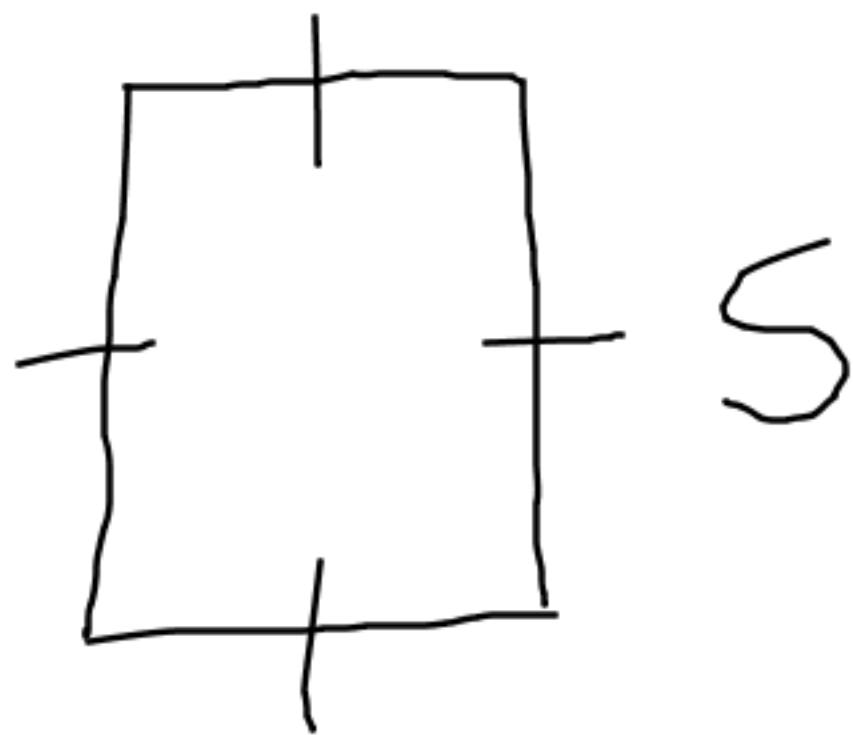


63)

p.150

Jan 11



$$A = L \times w$$

$$A = S \times S$$

$$\text{Area} = lha$$

$$= 10,000 \text{ m}^2$$

$$A = S^2$$

$$\sqrt{10,000} = \sqrt{S^2}$$

$$S = 100$$

The length of each side is 100m

P. 369 Working with Formulas

1. for the formula $A = Lw$

a) Find A , if $L = 8\text{cm}$ & $w = 5\text{cm}$

$$A = L \times w$$

$$A = 8 \times 5$$

$$A = 40\text{cm}^2$$

d. for the $C = 2\pi r$

a) find C , if $r = 10 \text{ cm}$

$$C = 2(3.14)(10)$$

$$r = \frac{628}{6.28}$$
$$r = 100 \text{ cm}$$

$$C = 62.8 \text{ cm}$$

b) find r , if $C = 628 \text{ cm}$

$$\frac{C}{2\pi} = \frac{2\pi r}{2\pi}$$

$$r = \frac{C}{2\pi}$$

$$r = \frac{628}{2(3.14)}$$

3. For the formula $A = \frac{1}{2}bh$

a) Find A , if $b = 6\text{ cm}$ and $h = 8\text{ cm}$

$$A = \frac{1(6)(8)}{2}$$

$$A = \frac{48}{2}$$

$$A = 24\text{ cm}^2$$

4. For the formula $P = 2(L + w)$

a) find P , if $L = 9\text{m}$ and $w = 6\text{m}$

$$P = 2(9 + 6)$$

$$P = 2(15)$$

$$P = 30$$

$$w = \frac{P - 2L}{2}$$

b) find w , if

$$P = 60, L = 16$$

$$P = 2(L + w)$$

$$P = 2L + 2w$$

$$\frac{P - 2L}{2} = \frac{2w}{2}$$

9. $E = \frac{mc^2}{c^2}$, for m

$$\frac{E}{c^2} = m$$



10. $2A = \frac{1 \times 1}{2 \times 1} h(a+b)$ for b

$$\frac{2A}{2} = \frac{1h(a+b)}{2}$$

$$2A = ha + hb$$

$$\frac{2A - ha}{h} = b$$

Homework : p. 369

Working with
formulas

↓ Review booklet