



LESSON - 2D MEASUREMENT REVIEW



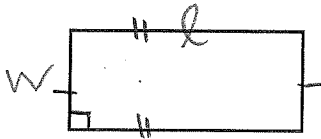
GUIDED PRACTICE: 2D MEASUREMENT REVIEW

PERIMETER = Distance around object. Unit = m, cm, in ...

AREA = Space within object. Unit = m², cm², sq. in ...

Shape name: Rectangle

Formulas:



$$P = l + w + l + w$$

$$P = 2l + 2w$$

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

$$A = l \times w \rightarrow A = l \times w$$

$$l = A \div w$$

$$w = A \div l$$

Example:

$$P = 2(5) + 2(4)$$

$$P = 10 + 8$$

$$P = 18 \text{ cm}$$

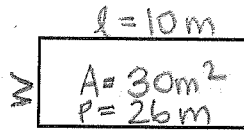
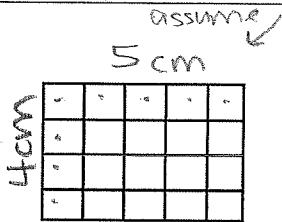
$$P = 2(l) + 2(w)$$

$$26 = 2(10) + 2w$$

$$26 = 20 + 2w$$

$$6 = 2w$$

$$3 = w$$



assume

$$A = l \times w$$

$$A = 5 \times 4$$

$$A = 20 \text{ cm}^2$$

(count all blocks)

$$A = l \times w$$

$$l = \frac{A}{w}$$

$$w = \frac{A}{l}$$

$$w = \frac{30}{10}$$

$$w = 3 \text{ m}$$

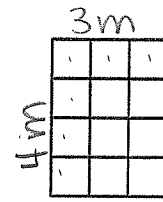
Example:

$$P = 2l + 2w$$

$$P = 2(4) + 2(3)$$

$$P = 8 + 6$$

$$P = 14 \text{ m}$$



$$A = l \times w$$

$$A = 4 \times 3$$

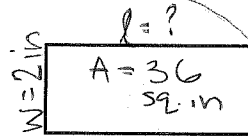
$$A = 12 \text{ m}^2$$

$$P = 2l + 2w$$

$$P = 2(18) + 2(2)$$

$$P = 36 + 4$$

$$P = 40 \text{ in}$$



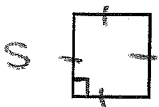
$$l = A \div w$$

$$l = 36 \div 2$$

$$l = 18 \text{ in}$$

Shape name: SQUARE

Formulas:



$$P = s + s + s + s$$

$$P = 4s$$

$$s = P \div 4$$

$$A = s \times s$$

$$A = s^2$$

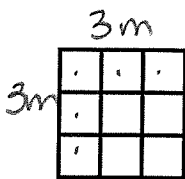
$$s = \sqrt{A}$$

Example:

$$P = 4s$$

$$P = 4(3)$$

$$P = 12 \text{ m}$$



$$A = s^2$$

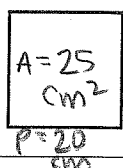
$$A = 3^2$$

$$A = 9 \text{ m}^2$$

$$P = 4s$$

$$20 = 4s$$

$$5 = s$$



$$A = s^2$$

$$\sqrt{A} = \sqrt{s^2}$$

$$s = \sqrt{A}$$

$$s = \sqrt{25}$$

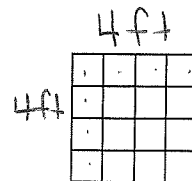
$$s = 5 \text{ cm}$$

Example:

$$P = 4s$$

$$P = 4(4)$$

$$P = 16 \text{ ft}$$



$$A = s^2$$

$$A = 4^2$$

$$A = 16 \text{ sq. ft}$$

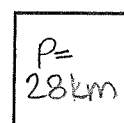
$$P = 4s$$

$$4 = 4s$$

$$s = P \div 4$$

$$s = 28 \div 4$$

$$s = 7 \text{ km}$$



$$A = s^2$$

$$A = 7^2$$

$$A = 49 \text{ km}^2$$