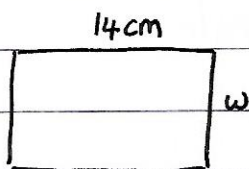


Area Problems : Answers

1)



$$A = lw$$

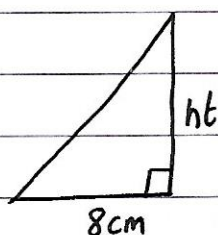
$$56 = 14w$$

$$\div 2 \quad \frac{56}{14} = w$$

$$\frac{28}{1} = w$$

$$4\text{cm} = w$$

2)



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

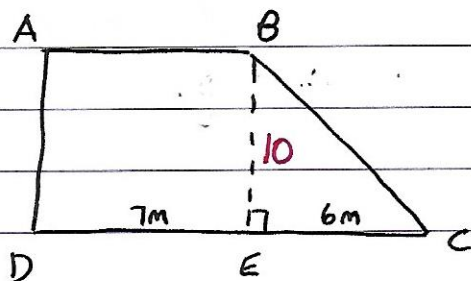
$$24 = \frac{8h}{2}$$

$$24 = 4h$$

$$\frac{24}{4} = h$$

$$6\text{cm} = \text{height}$$

3)



a) Triangle

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

$$30 = \frac{bh}{2}$$

$$30 = 3h$$

$$\frac{30}{3} = h$$

$$10\text{m} = h$$

b) Rectangle

$$A = lw$$

$$A = 7 \times 10$$

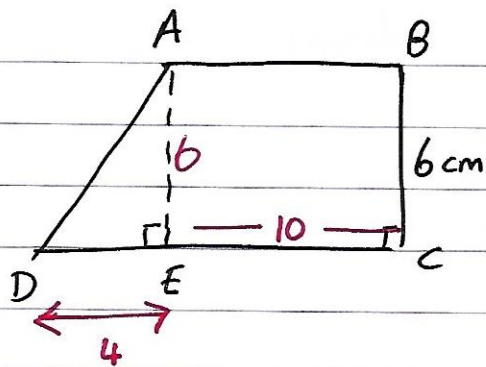
$$A = 70\text{m}^2$$

c) Total area = Rectangle + Triangle

$$= 70 + 30$$

$$= 100\text{m}^2$$

4)



Rectangle

$$A = lw$$

$$60 = l \times b$$

$$\frac{60}{b} = l$$

$$10 \text{ cm} = l$$

$$\text{Now } DC = 14 \text{ cm}$$

$$\therefore DE = 14 - 10$$

$$= 4 \text{ cm}$$

a) Triangle

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

$$A = \frac{4 \times 6}{2}$$

$$A = \frac{24}{2}$$

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

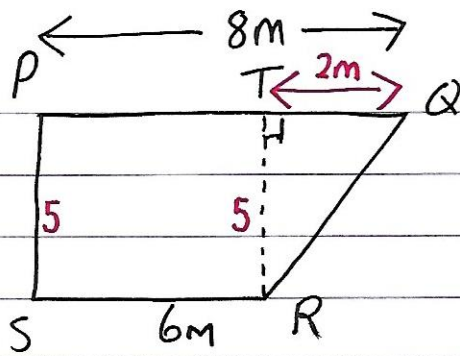
b) Rectangle

$$A = lw$$

$$A = 10 \times 6$$

$$A = 60 \text{ cm}^2$$

5)



First find $TQ = 8 - 6 = 2m$

Trapezium

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

$$35 = \frac{(6+8)h}{2}$$

$$35 = \frac{14h}{2}$$

$$35 = 7h$$

$$\frac{35}{7} = h$$

$$5m = h$$

a) Triangle

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

$$A = \frac{2 \times 5}{2}$$

$$A = \frac{10}{2}$$

$$A = 5m^2$$

b) Rectangle

$$A = lw$$

$$A = 6 \times 5$$

$$A = 30m^2$$