

Year 4 Homework Answer

Module 1: Hectares and square kilometres

1. a) square metres b) square metres c) square metres d) square kilometres
e) hectares f) 200

2.

>	=
=	<
>	<
=	>
>	=

3.

20000	7	10
50000	8	60000
100	4	9
150000	0.5	3
50000	500000	9
450000	2	140000
1100	3	2000000

4.

- a) False (We multiply 100000)
b) True
c) False (1 hectare is too big for classroom)
d) False (its area is 100 hectares)
e) True
f) False (We multiply 1000000)

5.

- a) B b) A c) B d) C e) B

6.

- e) > a) > b) > f) > c) > d)

7.

$$200 \times 400 = 80000 \text{ m}^2$$

$$80000 \text{ m}^2 = 8 \text{ hectares}$$

8.

$$6 \text{ km} = 6000 \text{ m}; 5 \text{ km} = 5000 \text{ m}$$

$$6000 \times 5000 = 30000000 \text{ m}^2$$

Or

$$6 \times 5 = 30 \text{ km}^2$$

$$30 \text{ km}^2 = 30000000 \text{ m}^2$$

9.

$$\text{Area before expanded: } 600 \times 500 = 300000 \text{ m}^2$$

$$\text{Length after expanded: } 600 + 300 = 900 \text{ m}$$

$$\text{Width after expanded: } 500 + 300 = 800 \text{ m}$$

$$\text{Area after expanded: } 900 \times 800 = 720000 \text{ m}^2$$

$$\text{Change of area: } 720000 - 300000 = 420000 \text{ m}^2$$

$$420000 \text{ m}^2 = 42 \text{ hectares}$$

10.

$$\text{Area of fish pond: } 2000 \times 100 = 200000 \text{ m}^2 = 20 \text{ hectares}$$

$$\text{Undeveloped area: } 27 - 20 = 7 \text{ hectares}$$

11.

$$200 \text{ km} = 200000 \text{ m}$$

$$\text{Area of the highway: } 200000 \times 40 = 8000000 \text{ m}^2$$

$$8000000 \text{ m}^2 = 800 \text{ hectares}$$

12.

$$\text{Land area: } 500 \times 79 = 39500 \text{ m}^2$$

$$\text{Land cannot be re-developed: } 39500 \times \frac{2}{5} = 15800 \text{ m}^2$$

$$\text{Land can be re-developed: } 39500 - 15800 = 23700 \text{ m}^2$$

13.

a)

$$\text{From ground to level 3: } 5000 \times 4 = 20000 \text{ m}^2$$

$$\text{From level 4 to level 10: } 4000 \times 7 = 28000 \text{ m}^2$$

$$\text{Total indoor area: } 20000 + 28000 = 48000 \text{ m}^2$$

b)

$$48000 \div 10 = 4800 \text{ customers}$$