Year 5 Homework Answer

**Module 3: Introduction to surface area**

1.

| | |
|---|---|
| 150 sqr m | 9600 sqr cm |
| 8.64 sqr mm | 1734 sqr mm |

2.

| |
|---|
| a) 12; 5; 240 sqr cm <br> 5; 5; 50 sqr cm <br> 240; 50; 290 sqr cm |
| b) 3; 8; 48 sqr cm <br> 3; 10; 60 sqr cm <br> 8; 10; 160 sqr cm <br> 48; 60; 160; 268 sqr cm |
| c) 9; 14; 252 sqr mm <br> 9; 12; 216 sqr mm <br> 12; 14; 336 sqr mm <br> 252; 216; 336; 804 sqr mm |
| d) 4; 7; 56 sqr mm <br> 4; 25; 200 sqr mm <br> 7; 25; 350 sqr mm <br> 56; 200; 350; 606 sqr mm |

3.

| | | |
|---|---|---|
| 150 sqr unit | 864 sqr unit | 1944 sqr unit |

4.

| | |
|---|---|
| 684 sqr m | 952 sqr m |

5.

A = 24 x 21 + (24 x 27) x 2 + (21 x 27) x 2 = 2934 sqr cm

6.

L = 20 cm

W = 10 cm

H = 5 cm

A = 2 x (10 x 20 + 5 x 20 + 5 x 10) = 700 sqr cm

7.

A of wall = 5 x 5 x 2 + 8 x 5 x 2 = 130 sqr m

(We don't need to paint the roof and floor)

8.

A = 2 x (8 x 15 + 10 x 15 + 10 x 8) = 700 sqr cm

9.

| Elephant | Lion |
|----------|---------|
| Hippo | Giraffe |

10.

a) 1m x 64m ; 2m x 32 m; 4m x 16m; 8m x 8m

b) you can put 7 stamps cover the length and 5 stamps cover the width.

Therefore, each row has 7 stamps and each column has 5 stamps. 7 x 5 = 35 stamps

11.

A = 45 x 25 + (45 x 20) x 2 + (25 x 20) x 2 = 3925 sqr cm

12.

   a) 4 x 3 x 4 = 48 sqr m

   b) 48 – 1.5 – 0.8 = 45.7 sqr m

   c) 4 x 4 = 16 sqr m;

      45.7 + 16 = 61.7 sqr m

   d) 61.7 x 3 = 185.1 dollars


13.

   a) 4 x 4 x 2 = 32 sqr m

   b) 13 x 4 x 3 = 156 sqr m

   c) white


14.

   a) 5 x 3 + 8 x 6 + 2 x 2 = 67 sqr m

   b) Bedroom wall: 5 x 6 x 2 + 3 x 6 x 2 = 96 sqr m

      Living room wall: 8 x 6 x 2 + 6 x 6 x 2 = 168 sqr m

      Toilet wall: 2 x 6 x 4 = 48 sqr m

      Total surface: 312 sqr m

   c) 67 sqr m; the celling and floor are having the same area.