

**Question 18** (8 marks)

Use the Floor Plan on page 20 to answer Question 18.

- (a) Calculate the combined floor area of the dining and living rooms. 3

$$2800 + 2500 + 1200 \dots\dots\dots 3870 + 2600 = 6470$$

$$= 6500$$

$$2100 + 1170 + 660 + 3870 \dots\dots\dots 2100 + 1170 + 660 = 3930$$

$$= 7800$$

$$3050 - 110 \dots\dots\dots 3930 \times 6500 = 10450$$

$$= 2940$$



$$6740 + 10450$$

$$= 17190 \text{ m}^2$$

$$7800 - 5500 + 110 = 2410$$

$$= 2940$$

**Question 18 continues on page 14**

Question 18 (continued)

- (b) Using the costings table and floor plan, calculate the total cost of tiling the kitchen area prior to installing the kitchen cabinets. 5

3 metres by 3 metres  $3m \times 3m = 1 \text{ tile}$   
\$90 a box  
Adhesive  $0.8m^2 = 0.8 \text{ m}^2$  \$55 per 4L tube  
1 tube covers 3.75 tiles  
then \$55 per  $m^2$   
 $7260 \times 4760 = 34,557,600$   
 $34,557,600 \div 3^2 = 3,839$   
Tiles = 3,839  
= \$1,2796.670  
3,839 tiles  
4,798 litres of Adhesive  
\$6,1688 of Adhesive  
 $3870 \times 4760 = 18,421,200$   
= \$6,0895

End of Question 18