1.8 Percentages

Student name: _____ Score: _____

1. A manufacturer made a profit of 60% when he sold a chair for $20.
Find the cost of making the chair.

Answer $ ....12.50............................ [3]

2. The price of a book was $7.00 .
It is reduced by 20%.

Find the new price of the book.

Answer $ ....5.60............................ [2]

3. There are 400 students at a school.

$\frac{2}{5}$ of the students are boys.

70% of the girls can swim.

The ratio of boys that **cannot** swim to girls that **cannot** swim is 2 : 3.

Complete the table.

	Boys	Girls	Total
Can swim	112	168	280
Cannot swim	48	72	120
Total	160	240	400

[4]

4. Increase 1 h 30 min by 10%.

........................1........................ h ....39................ min [2]

5. Calculate 75% of $2.40.

Answer(b) $ ....1.80............................ [2]

6. (a) Write 250 grams as a percentage of 2 kilograms.

Answer(a) ....12.5............................ % [2]

(b) Manuel scores 46 in a test.
This is 15% more than his previous test score.

Calculate Manuel's previous test score.

Answer(b) ....40............................ [3]

7. Tiago buys a concert ticket and then sells it for $15.
   He makes a profit of 20%.

   Calculate how much Tiago paid for the ticket.

   Answer $ ....12.50............... [3]

8. The price of a computer is reduced by 5%.
   The actual reduction is $17.

   Find the original price of the computer.

   Answer $ ....340............... [2]

9. In a sale, the price of all furniture is reduced by 30%.

   (a) Before the sale the price of a chair was $40.

        Find the price of this chair in the sale.

        $...............28............... [2]

   (b) In the sale, the price of a table is $140.

        Find the price of this table **before** the sale.

        $...............200............... [3]

10. When Jack sells a computer for $264 he makes a profit of 20%.

    Work out the price Jack paid for the computer.

    $ ....220............... [2]

11. Work out 15% of 600.

    ....90............... [2]

12. A shop has a sale and all prices are reduced by 20%.

    (a) The original price of a shirt is $16.

         Find the sale price of the shirt.

         $...............12.80............... [2]

    (b) The sale price of a dress is $40.

         Find the original price of the dress.

         $...............50............... [2]