N3

Number exam review

1 Toni buys a car for £2500 and sells it for £2775. Calculate her percentage profit.

.....%

(Total 3 marks)

2 a Work out $\frac{2}{15} \times 6$

Give your answer as a fraction in its simplest form.

.....

(2)

b Work out $2\frac{2}{3} \div \frac{5}{6}$

Give your answer as a mixed number in its simplest form.

.....

(2)

(Total 4 marks)

3

Andrea's Café

Delicious Cakes Only \$4.00 each

Andrea buys 100 cakes to sell in her café. She pays \$1.80 for each cake.

On Monday she sells 60 cakes, She sells these cakes for \$4.00 each On Tuesday she reduces the price of each cake by $\frac{1}{5}$

She sells 35 cakes at this reduced price.

Andrea than gives away the 5 unsold cakes.

Calculate the total profit that Andrea makes on the cakes.

\$

(Total 6 marks)

- 4 Pat drops a ball onto a wooden floor.

 The ball bounces to a height which is 26% less than the height from which it is dropped.
 - **a** Pat drops the ball from a height of 85 cm. Calculate the height to which it first bounces.

..... cm

(3)

b Pat drops the ball from a different height. If first bounces to a height of 48.1 cm. Calculate the height from which he dropped it.

..... cm

(3)

(Total 6 marks)

5 Convert the recurring decimal $0.\dot{23}$ to a fraction.

.....

(Total 2 marks)

- 6 Michael says "When the fraction $\frac{n}{45}$ is converted to a decimal, it never gives a terminating decimal."
- a i Find a value of n which shows the Michael is wrong,

n =

ii Write down the name of the type of number n must be,

when $\frac{n}{45}$ gives a terminating decimal.

(2)

b
$$\frac{62}{45} < \sqrt{2} < \frac{64}{45}$$

Use these bounds to write the value of $\sqrt{2}$ to an appropriate degree of accuracy. You must show your working and explain your answer.

.....

(2)

(Total 4 marks)

7 Convert 0.51 to a fraction.

(Total 2 marks)

.......

8 Work out $5\frac{2}{3} - 2\frac{3}{4}$

.....

(Total 3 marks)

9 Express the recurring decimal 2.06 as a fraction. Write your answer in its simplest form.

.....

(Total 3 marks)