**End of Unit Test** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Ratio and Proportion - HIGHER**

1) Here are two offers for batteries.

 

Zak wants to buy 40 batteries. Which is the cheaper offer? You must show your working.

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Answer ......................................................................

**(Total 5 marks)**

2) Laura buys a saddle in the UK for £950. Delivery is free.

 Steve buys the same saddle from Holland for 990 Euros. He pays 30 Euros for delivery.

£1 = 1.10 Euros

Including the delivery charge, whose saddle is cheaper? You must show your working.

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Answer ......................................................................

**(Total 3 marks)**

3) To complete a task in 15 days a company needs 4 people each working for 8 hours per day.

The company decides to have 5 people each working for 6 hours per day.

Assume that each person works at the same rate.

 (a) How many days will the task take to complete? You must show your working.

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Answer ............................................

**(3)**

(b) Comment on how the assumption affects your answer to part (a).

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 **(1)**

**(Total 4 marks)**

4) $y$ is directly proportional to $\sqrt{x}$

 

Work out the value of a.

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Answer ............................................

**(Total 4 marks)**

5) W is inversely proportional to x.

When W = 6, x = 20

Work out the value of W when x = 24

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Answer ......................................................................

**(Total 4 marks)**

**(Total for test = 20 marks)**