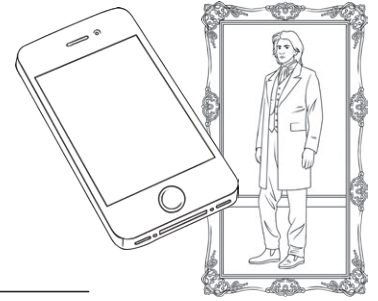# Percentage Change Activity Sheet

1. In January, a mobile phone shop sold 100 phones. In February, they sold 92 phones. Represent this difference as a percentage change.

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   _____

   _____

2. A piece is cut from a 130cm length of wood so that the remaining length is 104cm. What percentage of the wood has been cut off?

   _____

   _____

   _____

3. There are now 30 boys in a class that originally had 24 boys in it. What was the percentage increase in the number of boys in the class?

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   _____

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4. Last year, there were 300 students in Year 7. This year there are 315 students. Show that this is a 5% increase.

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5. A piece of art was bought for £600. Six months later, it was sold for £675. What percentage profit did the seller make?

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6. In a sale, trainers originally costing £70 are reduced to £49. Calculate the percentage change.

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7. Josh invests £3500. When his investment matures, he receives £4200. Work out the percentage increase in his investment.

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8. A car company bought a car for £8000. Two years later they sold the car for £7200. Calculate their percentage loss.

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Percentage Change Answers

1. 100 − 92 = 8

   $\frac{8}{100}$ × 100 = 8% decrease.

2. 130 − 104 = 26

   $\frac{26}{130}$ × 100 = 20% of the wood was cut off.

3. 30 − 24 = 6

   $\frac{6}{24}$ × 100 = 25% increase in the number of boys.

4. 315 − 300 = 15

   $\frac{15}{300}$ × 100 = 5% increase.

5. 675 − 600 = 75

   $\frac{75}{600}$ × 100 = 12.5% profit.

6. 70 − 49 = 21

   $\frac{21}{70}$ × 100 = 30% decrease.

7. 4200 − 3500 = 700~

   $\frac{700}{3500}$ × 100 = 20% increase in his investment.

8. 8000 − 7200 = 800

   $\frac{800}{8000}$ × 100 = 10% loss.