Increasing a Quantity by a Given Percentage Worksheet

1. Increase 25 by 35%.

   25 x _____ = _____

   (Convert the percentage to decimal)

2. Increase 46 by 15%.

   46 x _____ = _____

   (Convert the percentage to decimal)

3. Increase $2.50 by 8%.

   46 x _____ = _____

   (Convert the percentage to decimal)

> 135% = ——— =
>
> 115% = ——— =
>
> 108% = ——— =

4. a) If a train fare goes up by 2%, what is the decimal multiplier you would use to work out the new cost?

   _____

   _____

   b) The original price of a train fare was $2. Calculate the price after the increase of 2%.

   _____

   _____

5. The cost of a camera is $285 plus GST. The rate of GST is 10%. Calculate the cost of the camera.

   _____

6. The number of children attending swimming lessons increased by 35%. 20 children attended the lessons before the increase. How many children now attend swimming lessons after the increase?

   _____

7. 2575 people visited the zoo during April. The manager at the zoo predicts that there will be a 40% increase in visitors during May. How many visitors does the manager predict will visit the zoo during May?

   _____

8. Joshua gets two quotes for car repairs:

   Quote 1: $780 GST included.

   Quote 2: $675 plus GST.

   > 10% = _____ = _____
   >
   > 10% of $675 = $675 x _____ = _____
   >
   > $675 plus 10% = $675 + $ _____ = _____

   The rate of GST is 10%. Which is the more expensive quote? Show your working.

   $675 x 110% _____

   $675 x _____ = _____

   (Convert the percentage to decimal)