

# THE GREAT WALL OF CHINA

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The Great Wall of China is a series of walls and fortifications built across the northern borders of China to protect against invasions from the north. The wall is made of stone and brick, and is built on a high mountain range. The wall is 6,000 kilometers long, and is the longest wall in the world. The wall was built by the Chinese government, and is a symbol of the country's strength and power.

THE GREAT WALL OF CHINA  
IS A SERIES OF WALLS AND  
FORTIFICATIONS BUILT ACROSS  
THE NORTHERN BORDERS OF  
CHINA TO PROTECT AGAINST  
INVASIONS FROM THE NORTH.

### QUESTION 1

| Year               | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------|------|------|------|------|------|------|------|
| Revenue            | 100  | 110  | 120  | 130  | 140  | 150  | 160  |
| Cost of Sales      | 60   | 65   | 70   | 75   | 80   | 85   | 90   |
| Gross Profit       | 40   | 45   | 50   | 55   | 60   | 65   | 70   |
| Operating Expenses | 20   | 22   | 24   | 26   | 28   | 30   | 32   |
| Operating Profit   | 20   | 23   | 26   | 29   | 32   | 35   | 38   |
| Interest Expense   | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| Income Before Tax  | 15   | 18   | 21   | 24   | 27   | 30   | 33   |
| Tax Expense        | 3    | 3.6  | 4.2  | 4.8  | 5.4  | 6.0  | 6.6  |
| Net Income         | 12   | 14.4 | 16.8 | 19.2 | 21.6 | 24.0 | 26.4 |
| Dividends          | 4    | 4    | 4    | 4    | 4    | 4    | 4    |
| Retained Earnings  | 8    | 10.4 | 12.8 | 15.2 | 17.6 | 20.0 | 22.4 |

QUESTION 2



### TABLE 1

| Year | Country | Sector                         | Emissions (kt CO <sub>2</sub> e) |                      |           | Total (kt CO <sub>2</sub> e) |
|------|---------|--------------------------------|----------------------------------|----------------------|-----------|------------------------------|
|      |         |                                | Manufacturing and construction   | Electricity and heat | Transport |                              |
| 1990 | USA     | Manufacturing and construction | 1,200                            | 1,000                | 2,200     |                              |
| 1990 | USA     | Electricity and heat           | 1,000                            | 1,200                | 2,200     |                              |
| 1990 | USA     | Transport                      | 1,000                            | 1,000                | 2,000     |                              |
| 1990 | USA     | Total                          | 3,200                            | 3,200                | 6,400     |                              |
| 2000 | USA     | Manufacturing and construction | 1,100                            | 1,000                | 2,100     |                              |
| 2000 | USA     | Electricity and heat           | 1,000                            | 1,200                | 2,200     |                              |
| 2000 | USA     | Transport                      | 1,100                            | 1,000                | 2,100     |                              |
| 2000 | USA     | Total                          | 3,200                            | 3,200                | 6,400     |                              |
| 2010 | USA     | Manufacturing and construction | 1,000                            | 1,000                | 2,000     |                              |
| 2010 | USA     | Electricity and heat           | 1,000                            | 1,200                | 2,200     |                              |
| 2010 | USA     | Transport                      | 1,100                            | 1,000                | 2,100     |                              |
| 2010 | USA     | Total                          | 3,100                            | 3,200                | 6,300     |                              |
| 2010 | China   | Manufacturing and construction | 1,000                            | 1,000                | 2,000     |                              |
| 2010 | China   | Electricity and heat           | 1,000                            | 1,200                | 2,200     |                              |
| 2010 | China   | Transport                      | 1,100                            | 1,000                | 2,100     |                              |
| 2010 | China   | Total                          | 3,100                            | 3,200                | 6,300     |                              |

Source: EPA, 2012.

