Real-World Products: Worked Answers

Each problem solved the way the lesson does it.

Name: _____ Date: _____

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1. The temperature drops 1.5 degrees every hour for 6 hours. Total change?
   - $6 \times (-1.5) = -9$.

   Answer: −9 degrees (9 degrees colder)

2. A submarine dives 3.2 meters every minute for 5 minutes, from the surface. Where is it?
   - $5 \times (-3.2) = -16$.

   Answer: −16 meters (16 meters below the surface)

3. Leo spends $2.75 on a snack every day for 4 days. How does his money change?
   - $4 \times (-2.75) = -11$.

   Answer: −$11 (it goes down $11)

4. A lake drops 2 inches every day. How did its level 4 days ago compare to today?
   - Four days ago is −4. $(-4) \times (-2) = 8$.

   Answer: 8 inches (it was 8 inches higher)

5. An elevator goes down 4.5 meters every 10 seconds for 30 seconds. Total change?
   - Three tens in 30 seconds. $3 \times (-4.5) = -13.5$.

   Answer: −13.5 meters (13.5 meters down)

6. You lose 1/2 a point for each wrong answer and get 7 wrong. How do your points change?
   - $7 \times (-1/2) = -3\ 1/2$.

   Answer: −3 1/2 points (you lose 3 1/2 points)

7 A plant has been growing 0.5 cm a day. How did its height 6 days ago compare to today?

- Six days ago is –6. (–6) × 0.5 = –3.

Answer: –3 cm (it was 3 cm shorter)

8 A tank loses 2.5 liters every hour. How much did it hold 8 hours ago, compared to now?

- Eight hours ago is –8. (–8) × (–2.5) = 20.

Answer: 20 liters more