## Unit 2 Lesson 12: Navigating a Table of Equivalent Ratios

1 Number Talk: Multiplying by a Unit Fraction (Warm up)
Student Task Statement
Find the product mentally.
$\frac{1}{3} \cdot 21$
$\frac{1}{6} \cdot 21$
(5.6) $\cdot \frac{1}{8}$
$\frac{1}{4} \cdot(5.6)$

## 2 Comparing Taco Prices

## Student Task Statement

| number of <br> tacos | price in <br> dollars |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Use the table to help you solve these problems. Explain or show your reasoning.

1. Noah bought 4 tacos and paid $\$ 6$. At this rate, how many tacos could he buy for $\$ 15$ ?
2. Jada's family bought 50 tacos for a party and paid \$72. Were Jada's tacos the same price as Noah's tacos?

## 3 Hourly Wages

## Student Task Statement

Lin is paid $\$ 90$ for 5 hours of work. She used the table to calculate how much she would be paid at this rate for 8 hours of work.


1. What is the meaning of the 18 that appears in the table?
2. Why was the number $\frac{1}{5}$ used as a multiplier?
3. Explain how Lin used this table to solve the problem.
4. At this rate, how much would Lin be paid for 3 hours of work? For 2.1 hours of work?

## 4 Zeno's Memory Card (Optional)

## Student Task Statement

In 2016, 128 gigabytes (GB) of portable computer memory cost $\$ 32$.

1. Here is a double number line that represents the situation:


One set of tick marks has already been drawn to show the result of multiplying 128 and 32 each by $\frac{1}{2}$. Label the amount of memory and the cost for these tick marks.

Next, keep multiplying by $\frac{1}{2}$ and drawing and labeling new tick marks, until you can no longer clearly label each new tick mark with a number.
2. Here is a table that represents the situation. Find the cost of 1 gigabyte. You can use as many rows as you need.

| memory <br> (gigabytes) | cost <br> (dollars) |
| :---: | :---: |
| 128 | 32 |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

3. Did you prefer the double number line or the table for solving this problem? Why?
