We are mixing up orange paint today. Remember orange is made by mixing red and yellow together.

More red = darker orange

More yellow = lighter orange

Using red and yellow chips to model the ratios below, tell me which person mixed up the lighter or darker orange paint. What did you do in order to make this decision?

**Example problem:**

Abby mixes her paint 1 red to 3 yellow.

Zack mixes his paint 3 red to 5 yellow:

Draw the result below:

|  |  |
| --- | --- |
| Abby | Zack |
| http://www.theofficedealer.com/mm5/graphics/product_images/1300/seo/1372805661/Ace-Label-Systems-68080F-2-Circle-Yellow.jpghttp://upload.wikimedia.org/wikipedia/commons/f/f1/Ski_trail_rating_symbol_red_circle.png |  |

Now, to make comparing easier, triple Abby’s paint so she and Zack have the same amount of red paint. Now that the red portion is equal, you can compare just the yellow portion.

|  |  |
| --- | --- |
| Abby | Zack |
| http://upload.wikimedia.org/wikipedia/commons/f/f1/Ski_trail_rating_symbol_red_circle.png |  |

Whose paint is lighter orange? Abby or Zack

Now, practice with several more scenarios.

Joy: 1 red to 4 yellow JD: 2 red to 6 yellow.

|  |  |
| --- | --- |
| **Joy** | **JD** |
|  |  |

|  |  |
| --- | --- |
| **Joy** | **JD** |
|  |  |

Whose orange paint is lighter? Joy or JD

Lauren: 2 red to 3 yellow Gentry: 3 red to 5 yellow.

|  |  |
| --- | --- |
| **Lauren** | **Gentry** |
|  |  |

|  |  |
| --- | --- |
| **Lauren** | **Gentry** |
|  |  |

Whose orange paint is lighter? Lauren or Gentry

Haley: 4 red to 3 yellow Majed: 2 red to 1 yellow.

|  |  |
| --- | --- |
| **Haley** | **Majed** |
|  |  |

|  |  |
| --- | --- |
| **Haley** | **Majed** |
|  |  |

Whose orange paint is lighter? Haley or Majed

Tucker: 3 red to 8 yellow Genesis: 2 red to 5 yellow.

|  |  |
| --- | --- |
| **Tucker** | **Genesis** |
|  |  |

|  |  |
| --- | --- |
| **Tucker** | **Genesis** |
|  |  |

Whose orange paint is lighter? Tucker or Genesis

Madison: 3 red to 7 yellow Stephanie: 1 red to 3 yellow.

|  |  |
| --- | --- |
| **Madison** | **Stephanie** |
|  |  |

|  |  |
| --- | --- |
| **Madison** | **Stephanie** |
|  |  |

Whose orange paint is lighter? Madison or Stephanie

Nicolas: 2 red to 3 yellow Gwen: 4 red to 5 yellow.

|  |  |
| --- | --- |
| **Nicholas** | **Gwen** |
|  |  |

|  |  |
| --- | --- |
| **Nicholas** | **Gwen** |
|  |  |

Whose orange paint is lighter? Nicholas or Gwen