**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

CFS:

* Annotations: circle starting information and label if needed
* Model: accurately draw a double number line/table/equation
* ALL WORK IS SHOWN!
* Box final answer. Answer is written in sentence form if word problem.

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Unit 5 Review**

1. **12 pencils** can be purchased with **$3**. How many pencils can be purchased with **$4.50**?
2. Mr. Solomon can run **6 miles in 1.5 hours**. Which of the following rates is not equivalent to the rate at which Mr. Solomon is running?
3. 12 miles in 3 hours
4. 18 miles in 4.5 hours
5. 16 miles in 4 hours
6. 55 miles in 11 hours

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1. To make macaroni salad, you need **1 pounds of macaroni** for every **1 pound of mayonnaise**. Which ratio below is equivalent?
2. 3 pounds of macaroni for 3 pounds of mayonnaise
3. 4 pounds of macaroni for every 4 pounds of mayonnaise
4. 6 pounds of macaroni for every 4 pounds of mayonnaise
5. 7 pounds of macaroni for every 8 pounds of mayonnaise
6. Manufacturer A requires **70 buttons** for the manufacture of **10 shirts**. Manufacturer B requires **68 buttons** for the manufacture of **17 shirts**. How many buttons will each require to manufacture 15 shirts? Which has the **best** deal? Why?

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1. Lisa is ordering sand from the internet. On one site she found sand on sale for **$2.25 per pound**, and on the second site she found **5 kg of sand on sale for $14.00**. Which is the better deal?
2. Find the missing values in the table given that the relationship between **gallons** and **miles** is a constant ratio.

|  |  |
| --- | --- |
| **Gallons** | **Miles** |
| 7 |  |
|  | 12 |
| 35 | 15 |
| 42 |  |
|  | 30 |

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1. Dale's baseball team played **25 games** this season and **won 20 of them**. Jake’s baseball team played **20 games** this season and **won 17 of them**. Whose team won a larger percent of their games?
2. Jamie ordered **24** combo meals for **$5 each** for a party. The service charge for home delivery for the whole purchase was **$6**.  Express the service charge as a percentage of the cost of the combo meals.

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1. A grizzly bear weighs **80% of its original weight** after 3 weeks of hibernation. After 3 weeks of hibernation, the bear weighs **144 pounds**. What was the bear’s original weight? Represent and solve the problem using an equation.
2. Tyler drew a double number line diagram and stated that **75% of 24 is 15**. Is he correct? Explain why or why not and include your own double number line diagram as part of your justification.

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1. A clothing store offers a **30%** discount on all items in the store.
2. A: If the original price of a sweater is **$40**, how much money will a customer save with the discount?
3. A shopper bought a shirt and **saved $24 with the discount**. What was the original cost of the shirt?
4. Four friends measure each other's heights. Who is the tallest?

James: 48 inches

Katrina: 4 feet, 5 inches tall

Eric: 1 yard, 1 foot and 4 inches tall

Ellen: 4 feet, 3 inches tall

CFS:

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1. In the United States, speed limits are given in **miles per hour**. In Canada, they are written in **kilometers per hour**. What would a speed limit sign say in Canada if it was equivalent to a sign that said 65 miles per hour in the United States? Round to the nearest kilometer.