

Name _____ Date _____

**Skills Maintenance****Double Inequalities**

Select the double inequality that matches the word statement in each problem.

- The low temperature for the day was -5 and the high temperature was 15 . Show the temperature range, t , using a double inequality.
 - $-5 \leq t \leq 15$
 - $-5 \leq t < 15$
 - $-5 < t \leq 15$
- Children in Kiddy's Fun Play Land must be at least 2 and less than 8 years old. Show the range of ages, a , using a double inequality.
 - $2 < a < 8$
 - $2 < a \leq 8$
 - $2 \leq a < 8$
- The range of scores on the midterm exam went from a low of 53 to a high of 99 . Show the range of scores, s , using a double inequality.
 - $53 < s < 99$
 - $53 \leq s \leq 99$
 - $53 > s < 99$
- At the family reunion, the youngest grandchild was 5 years old and the oldest grandparent was 87 . Show the range of ages, a , using a double inequality.
 - $5 \leq a < 87$
 - $5 \leq a \leq 87$
 - $5 \leq a > 87$



Name _____ Date _____



Problem-Solving Activity

Comparing Different Rates

Answer the questions by comparing the different rates. Use a proportion to explain your answer.

- Crew A makes 30 sandwiches in 20 minutes. Crew B makes 50 sandwiches in 30 minutes. Which is the fastest crew? Base the comparison on how many sandwiches they each make in an hour (60 minutes).

Crew A $\frac{\text{Sandwiches}}{\text{Minutes}}$ _____ _____

Crew B $\frac{\text{Sandwiches}}{\text{Minutes}}$ _____ _____

Which crew is faster? _____

- Crew C can make 5 signs in 10 minutes. Crew D can make 8 signs in 15 minutes. Which is the fastest crew? Base your decision on how many signs each crew makes in a half hour.

Crew C $\frac{\text{Signs}}{\text{Minutes}}$ _____ _____

Crew D $\frac{\text{Signs}}{\text{Minutes}}$ _____ _____

Which crew is faster? _____

- Crew E earns \$100 in 3 days. Crew F can earn \$150 in 4 days. Which crew earns the most money? Base your decision on 12 days.

Crew E Money $\frac{\text{Earned}}{\text{Days}}$ _____ _____

Crew F Money $\frac{\text{Earned}}{\text{Days}}$ _____ _____

Which crew earns the most money? _____

Name _____ Date _____



Problem-Solving Activity

Comparing Different Rates

Use what you know about rate problems to answer the questions. Then underline what the question is asking you to find.

1. The Last Stop Car Wash does the cheapest oil changes in town. Andre and Jose are the only two workers on there on Saturday, so there is a long line for oil changes. It takes Andre 40 minutes to change the oil on 2 cars. Jose can do 4 cars in 60 minutes. After 2 hours or 120 minutes, they both take a break. What is the difference in the number of oil changes for the two workers?

2. Farmers harvest wheat with combines. The newer combines can do the job faster than old combines. A new combine can harvest 30 rows of wheat in 2 hours. The slower, older combine can do just 18 rows of wheat in the same time. What is the difference in the number of rows of wheat after 8 hours?

3. Let's say that you are driving 50 miles per hour and a car in the fast lane goes past you at the rate of 60 miles an hour. How far ahead of you will this car be after 5 hours?

4. There is usually a big difference between what someone who has been on the job for a long time can do and what a new worker can do. Steele's furniture store puts together cabinets that come from the factory in boxes. Jennice has been working at Steele's for 3 years. She can put together 15 cabinets in a day. Kara was just hired. She has to keep reading instructions so that she can put together a cabinet. She can only assemble 8 cabinets in a day. What is the difference in the number of cabinets that they can assemble in 5 days?



Reinforce Understanding

Use the mBook *Study Guide* to review lesson concepts.