Name _____ Date _____

Skills Maintenance
Solving Rate Problems

Activity 1

Solve the rate problems by completing the proportions.

1. Crew A can stuff 20 envelopes in 5 minutes. Crew B can stuff
    25 envelopes in 15 minutes. Compare their work after 30 minutes.

    Crew A $\dfrac{\text{Envelopes}}{\text{Minutes}}$ $\dfrac{20}{5}$ $\dfrac{\quad}{30}$

    Crew B $\dfrac{\text{Envelopes}}{\text{Minutes}}$ $\dfrac{25}{15}$ $\dfrac{\quad}{30}$

    Which crew is faster? _____

2. Crew A can frost 15 cupcakes in 20 minutes. Crew B can frost
    5 cupcakes in 5 minutes. Compare their work after 60 minutes.

    Crew A $\dfrac{\text{Cupcakes}}{\text{Minutes}}$ $\dfrac{15}{20}$ $\dfrac{\quad}{60}$

    Crew B $\dfrac{\text{Cupcakes}}{\text{Minutes}}$ $\dfrac{5}{5}$ $\dfrac{\quad}{60}$

    Which crew is faster? _____

3. Crew A can wash 10 windows in 15 minutes. Crew B can wash
    15 windows in 20 minutes. Compare their work after 60 minutes.

    Crew A $\dfrac{\text{Windows}}{\text{Minutes}}$ $\dfrac{10}{15}$ $\dfrac{\quad}{60}$

    Crew B $\dfrac{\text{Windows}}{\text{Minutes}}$ $\dfrac{15}{20}$ $\dfrac{\quad}{60}$

    Which crew is faster? _____

Name _____ Date _____

Apply Skills
Showing the Range on a Number Line

Activity 1

For each of the problems, show the two ranges of values that are possible answers for the inequality on the number line.
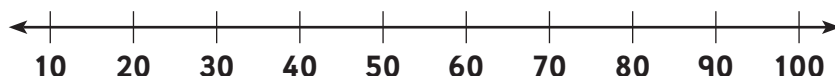
1. $5 < x < 10$ and $x > 12$

| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

2. $-1 \leq y < 3$ and $y \geq 5$

| −2 | −1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

3. $20 \leq x \leq 40$ and $x > 60$

| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

Activity 2

Tell if the number is within the range of possible values. Circle **True** or **False**.

1. $5 < x < 11$ and $x > 25$

   10 is in the range of the values   True   or   False

2. $-4 < y < 4$ and $y > 10$

   4 is in the range of the values   True   or   False

3. $2 \leq w < 12$ and $w > 21$

   12 is in the range of the values   True   or   False

4. $0 \leq z \leq 5$ and $z \geq 10$

   5 is in the range of the values   True   or   False

5. $15 < x \leq 25$ and $x \geq 30$

   35 is in the range of the values   True   or   False

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