**A1 S2 w15d2 More 12-4.notebook**

1. Skill 19: Multiply and Divide Rational Expressions
   Simplify the polynomial completely.

$$\frac{5x+10}{x+1} \div \frac{x^2-3x-10}{x^2-8x+15}$$

2. Skill 20: Construct a box and whisker plot for a set of data, and find the mean and
   range round to nearest tenth if needed.

   Number of Games Won (for the season): 97, 55, 78, 86 ,77, 68 ,92 ,81

| min | Q1 | Med | Q3 | max |
|-----|-----|-----|-----|-----|
|     |     |     |     |     |

Range___

Mean____

3. Simplify completely.

   a. $\dfrac{\sqrt{27}}{\sqrt{81}}$

   b. $\sqrt{\dfrac{25}{4}}$

   c. $\dfrac{\sqrt{72}}{\sqrt{50}}$

   d. $\sqrt{6}\left(\sqrt{6}-3\right)$

   e. $\left(\sqrt{5}+1\right)\left(\sqrt{5}-1\right)$

   f. $\sqrt{75}-4\sqrt{75}$

# Do all Evens

Name _____ Class _____ Date _____

## 12-4 Practice

Box-and-Whisker Plots

*Form G*

**Find the minimum, first quartile, median, third quartile, and maximum of each data set.**

**1.** 220 150 200 180 320 330 300

**2.** 14 18 12 17 14 19 18

**3.** 33.2 45.1 22.3 76.7 41.9 39 32.2

**4.** 5 8 9 7 11 4 9 4

**5.** 1.4 0.2 2.3 1.0 0.8 2.4 0.9 2.1

**6.** 90 47 88 53 59 72 68 62 79

**Make a box-and-whisker plot to represent each set of data.**

**7.** snack prices: $0.99 $0.85 $1.05 $3.25 $1.49 $1.35 $2.79 $1.99

**8.** ticket buyers: 220 102 88 98 178 67 42 191 89

**9.** marathon race finishers: 3,869 3,981 3,764 3,786 4,310 3,993 3,258

**10.** winning times (min): 148 148 158 149 164 163 149 156

**11.** ticket prices: $25.50 $45 $24 $32.50 $32 $20 $38.50 $50 $45

**12.** head circumference (cm): 60.5 54.5 55 57.5 59 58.5 58.5 57 56.75 57