Name _____   Date _____

Ready® Mathematics

Solve the problems.

1 Which expressions have a value between 7 and 8?

Choose all that apply.

A 2π

B $\pi + 4$

C $\sqrt{48}$

D $\sqrt{56}$

E $\sqrt{62}$

2 How can the decimal $0.\overline{12}$ be expressed as a fraction?

Show your work.

Answer: _____

3 Consider these numbers.

$$\sqrt{\frac{3}{8}} \qquad 0.\overline{75} \qquad \sqrt{\frac{1}{16}} \qquad 3.8 \qquad -\frac{12}{7} \qquad \sqrt{10} \qquad \frac{\pi}{2}$$

Write each number from the box in the correct category shown in the table.

Rational Numbers	Irrational Numbers

1

Lesson 3 Quiz continued

4 Which of the following lists the numbers in order from least to greatest?

   A $2\pi, 6, \sqrt{42}, \sqrt{34}$

   B $6, 2\pi, \sqrt{34}, \sqrt{42}$

   C $\sqrt{34}, 6, \sqrt{42}, 2\pi$

   D $\sqrt{34}, 6, 2\pi, \sqrt{42}$

5 Aaron has sewn three square tablecloths of different sizes. He determines the length of the diagonal of each square tablecloth.

Part A

The yellow tablecloth has a diagonal of $\sqrt{18}$ feet. What is the length of the diagonal of this tablecloth, to the nearest hundredth of a foot?

Show your work.

Answer: _____ feet

Part B

The red tablecloth has a diagonal of $\sqrt{10}$ feet. The blue tablecloth has a diagonal of $\sqrt{30}$ feet. Aaron says that the length of the diagonal of the blue tablecloth is three times the length of the diagonal of the red tablecloth.

Is he correct? Explain.

_____

_____

_____

_____

_____