**Beginning Algebra**

**Exam 1 Review 2**

#1 To which of the following sets does belong? (Circle all that apply.)

Integers Rationals Irrationals Real Numbers

#2 To which of the following sets does belong? (Circle all that apply.)

Integers Rationals Irrationals Real Numbers

#3 To which of the following sets does belong? (Circle all that apply.)

Integers Rationals Irrationals Real Numbers

For problems 4 – 10, evaluate the following expressions. Write your answer in simplest form.

#4 (-3)(-6) ÷ 2

#5 (-10) – 2

#6 (-16) + (-5)

#7

#8 -62 ÷ 4 (-2)3

#9 | -17 |

#10 2 • | 4 – 6 | 6(2 – 4)

#11 Two students evaluate the expression 16 ÷ 4 • 2 and get different answers. One student got 8 as the answer while the other student wrote 2 as the answer. Which of the answers is correct and why?

Multiply to clear parentheses as necessary and simplify the following expressions.

#12 -2(3 – *x*) + 10*x*

#13 2(*x* – 3) – (6 + *x*)

#14

#15 To which of the following sets does belong? (Circle all that apply.)

Integers Rationals Irrationals Real Numbers

#16 To which of the following sets does belong? (Circle all that apply.)

Integers Rationals Irrationals Real Numbers

#17 To which of the following sets does belong? (Circle all that apply.)

Integers Rationals Irrationals Real Numbers

For problems 4 – 10, evaluate the following expressions. Write your answer in simplest form.

#18 -3(8) ÷ 2

#19 (-24) – 12

#20 (-17) + (-8)

#21

#22 (-6)2 ÷ 4 -42

#23 | -4 |

#24 (-2)| 4 – 6 | 6(4 – 2)

#25 Two students evaluate the expression 16 ÷ 4 • 2 and get different answers. One student got 8 as the answer while the other student wrote 2 as the answer. Which of the answers is correct and why?

Multiply to clear parentheses as necessary and simplify the following expressions.

#26 -2(4*x* + 3) + 10*x*

#27 5(*x* – 3) + 2(6 + *x*)

#28