

# ALEKS® Arithmetic Readiness Quiz #1

Beginning and Intermediate Algebra Combined / MATH 101 - Fall 2014 – 504 (Prof. Miller)

Student Name/ID:

**Instructor Note:**

Directions: Every problem is worth two points. One point is for trying the problem and showing your work and one point is for getting the correct answer. There are an additional five points for demonstrating the study strategy that is posted on the board and talked about at the beginning of class.

1. Fill in the blank to make the two fractions equivalent.

$$\frac{6}{7} = \frac{\boxed{\phantom{000}}}{28}$$

2. Write  $\frac{20}{7}$  as a mixed number.

3. Add.

$$\frac{9}{10} + \frac{3}{4}$$

Write your answer as a fraction in simplest form.

4. Write the fraction  $\frac{27}{36}$  in simplest form.

5. Round 0.487 to the nearest hundredth.

6. A pet store has 7 cats. Here are their weights (in pounds).

16, 7, 15, 15, 16, 13, 7

Find the mean weight of these cats.

If necessary, round your answer to the nearest tenth.

7. Write 14% as a fraction in simplest form.

8. Evaluate.

$$4 + 2 \cdot 6^2$$

9. Give the digits in the ones place and the hundredths place.

64.72

10. Divide. Write your answer in simplest form.

$$\frac{9}{16} \div \frac{7}{10}$$

11. Write  $2\frac{4}{7}$  as an improper fraction.

**12.**

(a) Write 6.27% as a decimal.

(b) Write 0.084 as a percentage.

**13.**

Write  $\frac{17}{25}$  as a percentage.

**14.** Multiply. Write your answer as a fraction in simplest form.

$$\frac{4}{5} \times \frac{10}{3}$$

**15.** Evaluate the following expression.

$$42 \div [1 + (11 - 9) \times 3]$$

## Arithmetic Readiness Quiz #1 Answers for class Beginning and Intermediate Algebra Combined / MATH 101 - Fall 2014 – 504

1.  $\frac{6}{7} = \frac{24}{28}$

2.  $2\frac{6}{7}$

3.  $\frac{33}{20}$  or  $1\frac{13}{20}$

4.  $\frac{3}{4}$

5. 0.49

6. 12.7 pounds

7.  $\frac{7}{50}$

8. 76

9. ones: 4  
hundredths: 2

10.  $\frac{45}{56}$

11.  $\frac{18}{7}$

12. (a) 0.0627

(b) 8.4%

13. 68%

14.  $\frac{8}{3}$

15.  $42 \div [1 + (11 - 9) \times 3] = 6$