Lesson 1 Practice Problems

1. Order from smallest to largest:

    ○ Number of pennies in a stack that is 1 ft high

    ○ Number of books in a stack that is 1 ft high

    ○ Number of dollar bills in a stack that is 1 ft high

    ○ Number of slices of bread in a stack that is 1 ft high

2. Use each of the numbers 4, 40, and 4000 once to complete the sentences.

    a. The value of _____ $\div\, 40.01$ is close to 1.

    b. The value of _____ $\div\, 40.01$ is much less than 1.

    c. The value of _____ $\div\, 40.01$ is much greater than 1.

3. Without computing, decide whether the value of each expression is much smaller than 1, close to 1, or much greater than 1.

    a. $100 \div \frac{1}{1000}$

    b. $50\frac{1}{3} \div 50\frac{1}{4}$

    c. $4.7 \div 5.2$

    d. $2 \div 7335$

    e. $2,000,001 \div 9$

    f. $0.002 \div 2,000$

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4. A rocking horse has a weight limit of 60 pounds.

      a. What percentage of the weight limit is 33 pounds?

      b. What percentage of the weight limit is 114 pounds?

      c. What weight is 95% of the limit?

(From Unit 3, Lesson 16.)

5. Compare using $>$, $=$, or $<$.

      a. 0.7 _____ 0.70

      b. $0.03 + \frac{6}{10}$ _____ $0.30 + \frac{6}{100}$

      c. 0.9 _____ 0.12

(From Unit 3, Lesson 15.)

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6. Diego has 90 songs on his playlist. How many songs are there for each genre?

     a. 40% rock

     b. 10% country

     c. 30% hip-hop

     d. The rest is electronica

(From Unit 3, Lesson 14.)

7. A garden hose emits 9 quarts of water in 6 seconds. At this rate:

     a. How long will it take the hose to emit 12 quarts?

     b. How much water does the hose emit in 10 seconds?

(From Unit 3, Lesson 8.)

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