

Rational Numbers Vocabulary

Long-Term Memory Review – Grade 6

Review 1

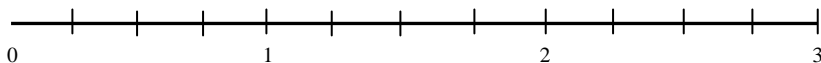
1. What is a composite number?

2. Find all the factors for 6 and then all the factors for 12.

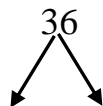
3. Put these fractions in order from greatest to least:

$$\frac{2}{3}, \frac{4}{5}, \frac{1}{2}, \frac{1}{4}$$

4. On the number line plot and label 1.75.



5. Create a factor tree for 36. (*Remember that you should have only prime numbers when finished*).



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Long-Term Memory Review – Grade 6

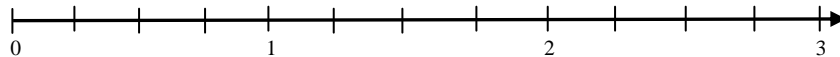
Review 2

1. What is a prime number?

2. What does G.C.F. stand for? Show how to find the G.C.F. of 4 and 12.

3. Which statement is NOT true?
 - a) $3.61 > 3.09$
 - b) $6.099 < 6.1$
 - c) $4.801 = 4.8$

4. On the number line plot and label $1\frac{1}{2}$.



5. Joe wants to have a party for his friends. He needs to buy two different sizes of plates; one for dinner, and one for dessert. The dinner plates come in packages of 10 and the dessert plates come in packages of 8. What is the smallest number of packages of each type of plate Joe needs to buy so he has an equal number of each size?

6. Create a factor tree for 60.

Rational Numbers Vocabulary

Long-Term Memory Review – Grade 6

Review 3

- Place an X in the appropriate boxes below showing if the numbers are prime or composite.

Number	Prime	Composite
2		
10		
17		
23		
35		
40		

- List the first 10 multiples of 4 and 6.
- Put these decimals in order from least to greatest:
35.67, 35.72, 35.665, 35.701, 35.006

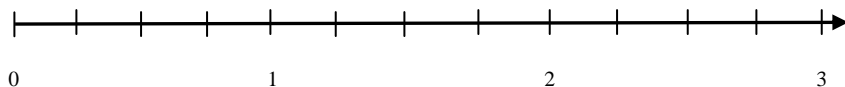
- On the number line, plot and label the following points:

a) $A = \frac{3}{4}$

c) $C = 2\frac{1}{2}$

b) $B = 1\frac{1}{4}$

d) $D = 2\frac{3}{4}$



- What is prime factorization? Find the prime factorization for 45.

Rational Numbers Vocabulary

Long-Term Memory Review – Grade 6

Review 4

1. Is 21 prime or composite? Explain your answer.

2. What does L.C.M. stand for? Find the L.C.M. of 12 and 48.

3. Using these symbols, $<$, $>$, and $=$, make the following statements true:

a) $\frac{3}{5}$ $\frac{1}{2}$ b) $\frac{1}{4}$ $\frac{4}{16}$ c) $\frac{3}{6}$ $\frac{7}{9}$ d) $\frac{2}{8}$ $\frac{3}{6}$

- 4) Create a factor tree for 63.

- 5) What is the prime factorization of 63?
(Remember to write the factors from least to greatest.)

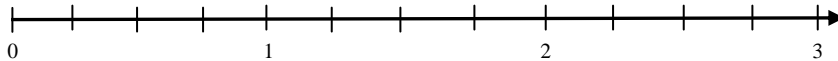
Rational Numbers Vocabulary

Long-Term Memory Review – Grade 6

Quiz

1. On the number line plot and label the following points:

1) $A = \frac{1}{2}$ 2) $B = 2\frac{1}{4}$ 3) $C = 1\frac{3}{4}$



2. Explain the difference between prime and composite numbers. Please use complete sentences.

3. What is the prime factorization for 48? Show your work.

4. Which statement is true?

a) $0.67 < 0.54$

c) $1.459 > 1.70$

b) $13.7 < 13.71$

d) $0.98 < 0.905$

5) Put these numbers in order from greatest to least:

4.5, 4.49, 4.54, 4

6. Sue is planning a barbecue. She wants to barbecue hot dogs for her guests. Hot dogs come in packages of 8, and hot dog buns come in packages of 6. What is the smallest number of packages of each Sue needs to buy so she has the same number of hot dogs and buns?

- a) 1 package of hot dogs and 2 packages of hot dog buns
- b) 2 packages of hot dogs and 3 packages of hot dog buns
- c) 3 packages of hot dogs and 2 packages of hot dog buns
- d) 3 packages of hot dogs and 4 packages of hot dog buns

Rational Numbers Vocabulary

Long-Term Memory Review – Grade 6

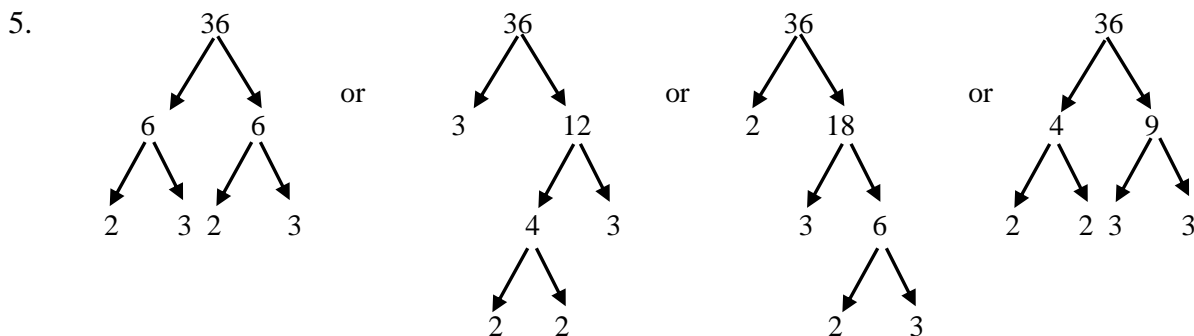
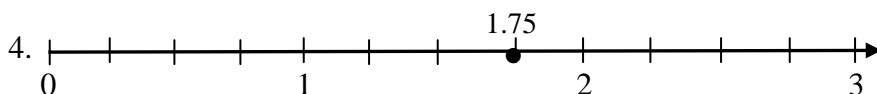
ANSWERS

Review 1 Answers

1. A number that has more factors than 1 and itself.

2. Factors for 6 = 1, 2, 3, 6
Factors for 12 = 1, 2, 3, 4, 6, 12

3. $\frac{4}{5}, \frac{2}{3}, \frac{1}{2}, \frac{1}{4}$

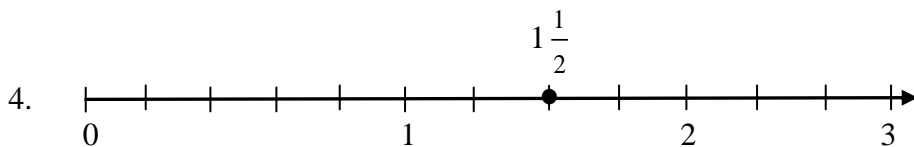


Review 2 Answers

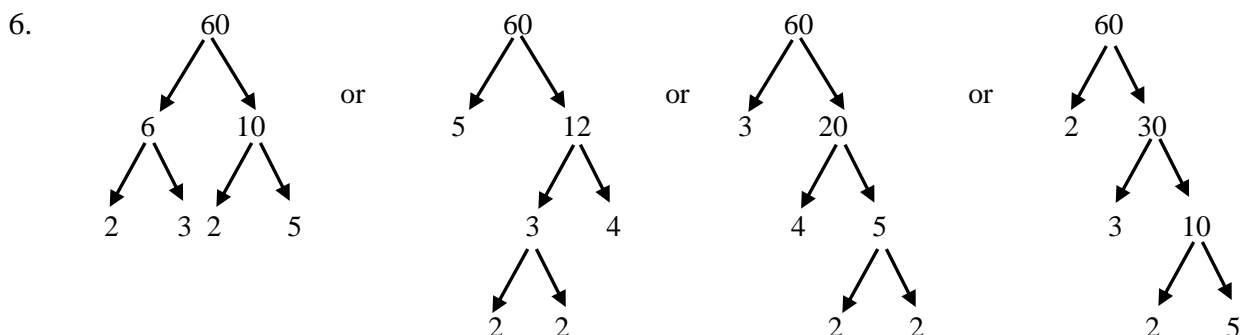
1. A whole number, greater than 1, that has exactly two factors, itself and 1. (1 is not a prime number.)

2. GCF = Greater Common Factor $\left\{ \begin{array}{l} \text{Factors for 4} = 1, 2, \textcircled{4} \\ \text{Factors for 12} = 1, 2, 3, \textcircled{4}, 6, 12 \end{array} \right\}$ GCF of 4 and 12 = 4

3. c) $4.081 = 4.8$



5. 5 desserts and 4 dinners

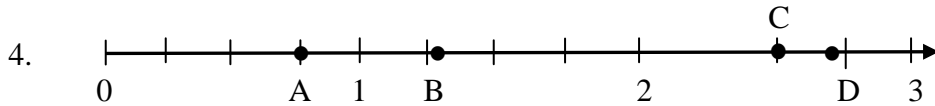


Rational Numbers Vocabulary

Long-Term Memory Review – Grade 6

Review 3 Answers

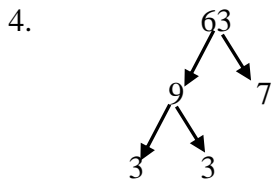
- 2 = Prime: 10 = Composite: 17 = Prime: 23 = Prime: 35 = Composite: 40 = Composite
- Multiples of 4 = 4, 8, 12, 16, 20, 24, 28, 32, 36, 40
Multiples of 6 = 6, 12, 18, 24, 30, 36, 42, 48, 54, 60
- 35.006, 35.665, 35.67, 35.701, 35.72



- Prime Factorization = The factorization of a number into its prime factors.
 $45 = 3 \times 3 \times 5 = 3^2 \times 5$

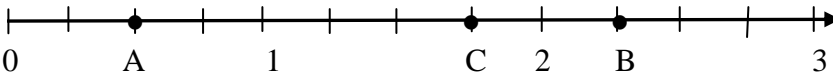
Review 4 Answers

- 21 is composite, because it has more than two factors. 1, 3, 7, 21
- LCM = Least Common Multiple LCM of 12 and 48 = 48
- a) > b) = c) < d) <



- $63 = 3 \times 3 \times 7 = 3^2 \times 7$

Quiz Answers

- 
- A prime number has exactly 2 factors, one and itself, but a composite number has more than 2 factors.
- $48 = 2 \times 2 \times 2 \times 2 \times 3 = 2^4 \times 3$
- B $13.7 < 13.71$
- 4.54, 4.5, 4.49, 4
- D 3 packages of hot dogs and 4 packages of hot dog buns.