

1) Find a composite number between 50 and 60 whose prime factors have a sum of 11.

2)

The number of factors of 16.

The number of factors of 22.

A B

Which statement is true?

- (A) A is greater than B.
- (B) B is greater than A.
- (C) A and B are equal.
- (D) There is not enough information to tell which is greater.

3) How many counting numbers less than 20 have 3 as one of their prime factors?

List these counting numbers.

How could you describe this set of numbers?

4) Find the LCM of 10, 20, and 24 to determine the lowest common denominator of the fractions listed below. Then, use this to arrange them from least to greatest.

$$\frac{7}{10} \quad \frac{15}{24} \quad \frac{13}{20}$$

5) 24 students visited a dinosaur bone bed in Montana. A dinosaur bone bed is a place where bones from many different dinosaurs are found together. The students dug up bones from 3 different kinds of dinosaurs.

- 11 students found Maiasaur bones.
- 8 found Lambeosaur bones.
- 4 found Troodon bones.
- 2 found Maiasaur and Troodon bones, but not Lambeosaur bones.
- 5 found only Maiasaur bones.
- The number who found only Troodon bones was one more than the number who found Lambeosaur and Troodon bones, but not Maiasaur bones.

How many students did not find a dinosaur bone?



6) Simplify each of the following:

$$\frac{27}{81}$$

$$\sqrt{121}$$

$$(-2)^5$$

$$3^{-2}$$

7) The GCF of two numbers is 4 and the LCM of the two numbers is 80. If both are two digit numbers, what are the two numbers?

8)

$$(-3)^4$$

A

$$-3^4$$

B

Which statement is true?

- (A) A is greater than B.
- (B) B is greater than A.
- (C) A and B are equal.
- (D) There is not enough information to tell which is greater.



9) Order these fractions from least to greatest.

$$\frac{5}{9} \quad \frac{2}{3} \quad \frac{7}{12}$$

10) Identify all factors of 208. List these factors in ascending order.

11) List the first 10 counting numbers that are prime.



12) True or False? If a whole number is not prime, it must be composite. Please give an example to explain your answer.

13) Find the GCF and LCM of 18, 42, and 56

14) Convert 2.71828×10^7 to standard form.

Convert 0.040009 to scientific notation

