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Mathematics: Adding Like and Unlike Denominators

Directions: Fill in the circle for the correct answer to each addition problem. Choose “none of these” if the right answer is not given.

Samples

A.
$$\begin{array}{r} \frac{2}{6} \\ + \frac{1}{6} \\ \hline \end{array}$$
 (A) 1/6
(B) 3/12
(C) 3/6
(D) 3
(E) none of these

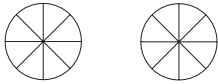
B.
$$\frac{3}{8} + \frac{1}{4} =$$
 (F) 2/4
(G) 2/8
(H) 4/12
(J) 4/8
(K) none of these

1.
$$\begin{array}{r} \frac{3}{7} \\ + \frac{2}{7} \\ \hline \end{array}$$
 (A) 55/77
(B) 1/7
(C) 5/7
(D) 6/7
(E) none of these

6. (F) 1,5,25
(G) 1,5,20,25
Which lists all the factors of 25?
(H) 1,2,5,10,20,25
(J) 2,5
(K) none of these

2. (F) 1/2
(G) 5/8
(H) 6/8
(J) eighths
(K) none of these

You have two pies cut into eight pieces each. You put three pieces of one and two pieces of the other on a plate. What fraction of a pie do you have now?



7. (A) 1
(B) 6
(C) 8
(D) 4
(E) none of these

Which is not a factor of 12?

3.
$$\begin{array}{r} \frac{1}{8} \\ + \frac{2}{16} \\ \hline \end{array}$$
 (A) 4/8
(B) 1/8
(C) 3/8
(D) 3/16
(E) none of these

8. (F) 2/3
(G) 3/7
(H) 7/10
(J) 3
(K) none of these

What fraction of these circles is black?

4. What is X if the answer is 1? (F) 5
(G) 2
(H) 1
(J) 4
(K) none of these

$$\frac{4}{5} + \frac{X}{10} = 1$$

9. (A) $2^4 \times 3$
(B) $2^3 \times 3$
(C) $2^3 \times 3^2$
(D) 2^5
(E) none of these

Which is the prime factorization of 48?

5. (A) $3 \frac{3}{4}$
(B) $\frac{33}{4}$
(C) 4
(D) $\frac{9}{4}$
(E) none of these

Which is equal to three and three-quarters?

10. (F) 6
(G) 14
(H) 24
(J) 8
(K) none of these

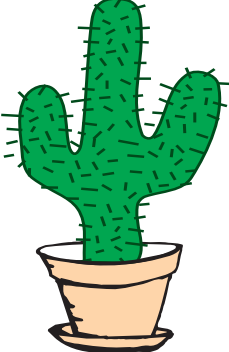

What is the least common multiple of 6 and 8?



Science: Plants

Directions: Read the questions, and choose the best answer. In some places, you are asked to write your answers.

1. Let's compare and contrast two plants. List information that you know or can see about each plant.

Plant 1	Plant 2
 <ul style="list-style-type: none">• _____• _____• _____• _____• _____	 <ul style="list-style-type: none">• _____• _____• _____• _____• _____

2. All living things need

- (F) seeds.
- (G) energy.
- (H) soil.
- (J) leaves.

3. Seeds develop in a part of a plant called a

- (A) root.
- (B) stem.
- (C) leaf.
- (D) flower.

4. All plants and animals have this in common:

- (F) straightness.
- (G) photosynthesis.
- (H) respiration.
- (J) usefulness.

5. A rose has stems and leaves. Which of the following has scales and bones?

- (A) frog
- (B) cat
- (C) fish
- (D) human

6. Any matter that can be made into useful products is called

- (F) stored food.
- (G) raw material.
- (H) light.
- (J) energy.