1

Which two fractions are equivalent to $\frac{2}{3}$?

A
$$\frac{10}{15}, \frac{16}{24}$$

B $\frac{20}{30}, \frac{35}{45}$

C $\frac{14}{18}, \frac{25}{30}$

D $\frac{14}{30}, \frac{22}{30}$

D $\frac{24}{30}, \frac{22}{33}$

Write the fraction in simplest form. 2

$$\frac{12}{18}$$
A $\frac{12}{18}$

B $\frac{4}{6}$

C $\frac{1}{6}$

D $\frac{2}{3}$

Which of the following is $\frac{16}{60}$ in simplest form? 3

A
$$\frac{3}{10}$$
B $\frac{2}{5}$
C $\frac{4}{15}$
 $\frac{16 \div 2}{60 \div 2} = \frac{8 \div 2}{30 \div 2} = \frac{4}{15}$

There are 42 bananas in a bag. If Kanti takes out 7 of the bananas, what fraction of the bananas does she take out of the bag?

A
$$\frac{1}{42}$$

B
$$\frac{1}{3}$$

$$C = \frac{1}{7}$$

$$\bigcirc$$
 \bigcirc $\frac{1}{6}$

5 Write the fraction in simplest form.

$$A = \frac{1}{2}$$

$$\bigcirc$$
 $\frac{3}{4}$

$$D = \frac{5}{6}$$

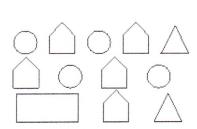
Which of the following pairs of numbers has a least common multiple of 40?

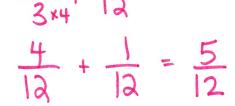
$$C \cdot 4 = 4,8,12,16,20,24,28,10 = 32,36,40$$

What is the least common demonimator for $\frac{1}{6}$ and $\frac{3}{8}$?.

7

Of the shapes shown, $\frac{1}{3}$ are circles and $\frac{1}{12}$ are rectangles. What fraction of the shapes are either circles or rectangles?





- A $\frac{1}{3}$
- $B = \frac{3}{4}$
- $\frac{5}{12}$
 - D $\frac{2}{15}$
- 9 Nicola and his sister hiked along the Lakeshore Trail and the McKinnon Trail. The

Lakeshore Trail is $\frac{1}{4}$ mile long and the McKinnon Trail is $\frac{1}{16}$ mile long. How far did they walk along the trails?

- A $\frac{5}{8}$ mile
- - C $\frac{1}{2}$ mile
 - D $\frac{5}{16}$ mile

$$\frac{4}{16} + \frac{9}{16} = \frac{13}{16}$$

A contractor was paving a driveway. He mixed $\frac{1}{7}$ ton of sand and $\frac{1}{3}$ ton of concrete. How much did the mixture weigh?

- A $\frac{1}{4}$ ton
- B $\frac{2}{5}$ ton
- $C = \frac{5}{7} ton$
- $\frac{19}{21}$ ton

 $\frac{1}{7}x^{3} + \frac{3}{3}x^{7}$

$$\frac{12}{21} + \frac{1}{21} = \frac{19}{21}$$

Of the shapes shown, $\frac{3}{8}$ of the arrows are pointing downward, and $\frac{5}{16}$ of the arrows are pointing upward. What fraction of the arrows are pointing either downward or upward?

$$\frac{3^{2}}{8^{2}} + \frac{5}{16}$$

$$\frac{6}{16} + \frac{5}{16} = \frac{11}{11}$$

- A $\frac{1}{16}$
- **B** $\frac{1}{2}$
- C $\frac{5}{8}$
- D \frac{11}{16}

A painter is painting a house. He mixed $\frac{5}{9}$ gallon of white paint and $\frac{1}{6}$ gallon of blue paint. How many gallons was the mixture in all?

- A $\frac{2}{5}$ gallon
- B $\frac{4}{5}$ gallon
- C $\frac{7}{18}$ gallon
- $\frac{13}{18}$ gallon

$$\frac{5x^{2}}{9x^{2}} = \frac{10}{18} + \frac{1x^{3}}{18} = \frac{13}{18}$$

13

Glenn made a loaf of banana nut bread for a picnic. He used $\frac{1}{2}$ cup fewer nuts than in the recipe. If the recipe called for $\overline{6}$ cup of nuts, what amount of nuts did Glenn use?

- D

14

Bart made potato salad for a picnic. He used $\frac{1}{4}$ cup fewer onions than the recipe called for. If the recipe called for $\frac{1}{8}$ cup of onions, what amount of onions did Bart use?

- D

- Cleo and Alexi entered a race to see who could bike the farthest in 3 minutes. Cleo biked 15

 $\frac{5}{6}$ mile. Alexi biked $\frac{7}{10}$ mile. How much farther did Cleo bike?

- $\frac{2}{15}$ mile
- $\frac{2}{5}$ mile
- D

$$\frac{7x^3}{10x^3} - \frac{5}{6}x^5$$

$$\frac{25}{30} - \frac{21}{30} = \frac{4}{30} + \frac{2}{15} = \frac{2}{15}$$

Janice needs to read $\frac{2}{3}$ of her book by Friday. So far she has read $\frac{1}{2}$ of it. What part of the book must she still read by Friday?

B
$$\frac{5}{12}$$

C
$$\frac{2}{5}$$

D
$$\frac{1}{3}$$

$$\frac{4}{6} - \frac{3}{6} = \frac{1}{6}$$

Olivia hopes to complete $\frac{4}{5}$ of the levels of her computer game by the end of the week. So far, she has completed $\frac{2}{3}$ of the levels. What part of the levels must she still complete to meet her goal?

$$\frac{2}{15}$$

B
$$\frac{1}{3}$$

C
$$\frac{1}{5}$$

D
$$\frac{7}{30}$$

$$\frac{12}{15} - \frac{10}{15} = \frac{2}{15}$$

Jenny is transferring addresses to her new address book. Last week, she transferred $\frac{1}{3}$ of the addresses. This week, she transferred another $\frac{1}{8}$ of the addresses. How many more addresses did she transfer last week?

A
$$\frac{1}{5}$$

$$\frac{5}{12}$$

$$\frac{12}{5}$$

D
$$\frac{11}{12}$$

$$\frac{8}{24} - \frac{3}{24} = \frac{5}{24}$$

Gayle used $\frac{1}{3}$ of a cup of raisins in her cookies, and Jimmy used $\frac{1}{4}$ of a cup of raisins in his cookies. How many more raisins did Jimmy use than Gayle? Write the answer in simplest form.

- A $\frac{1}{4}$ cup
- $\mathsf{B} \quad \frac{5}{6} \, \mathsf{cup}$
- $C = \frac{1}{2} cup$

 $\frac{3^{x^3}}{4^{x^3}}$ $\frac{1^{x^4}}{3^{x^4}}$

$$\frac{9}{12} - \frac{4}{12} = \frac{5}{12}$$

20 $\frac{1}{6}$ Katrina read for $\frac{1}{6}$ of an hour on Saturday and $\frac{2}{3}$ of an hour on Sunday. In simplest form, how much time did Katrina read altogether?

- - B $\frac{3}{9}$ hour
 - $C = \frac{5}{12} \text{ hour}$
 - $D = \frac{2}{3} \text{ hour}$

$$\frac{1}{6} + \frac{2}{3} \times 2$$