Quiz for Lesson 5

Outside 1st Year, Level I - Q Ed.

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Question 1

The number 16 is the denominator in the fraction.

$$\frac{11}{16}$$

Select one:

○ True ✓

○ False ✗

The correct answer is 'True'.

Question 2

An improper fraction is one in which the denominator is greater than the numerator.

Select one:

○ True ✗

○ False ✓

The correct answer is 'False'.

Question 3

A(n) _?_ number is a whole number together with a proper fraction.

- ○ a. compound ✖
- ○ b. improper ✖
- ◉ c. mixed ✔
- ○ d. rational ✖

The correct answer is: mixed

Question 4

Reduce the following fraction to its lowest terms.

$$\frac{20}{80} =$$

- ◉ a. $\dfrac{1}{4}$ ✔
- ○ b. $\dfrac{2}{8}$ ✖
- ○ c. $\dfrac{4}{16}$ ✖
- ○ d. $\dfrac{5}{20}$ ✖

The correct answer is: $\dfrac{1}{4}$

Reduce the following fraction to its lowest terms.

$$\frac{6}{9} =$$

- ○ a. $\frac{1}{3}$ ✖
- ○ b. $\frac{3}{6}$ ✖
- ◉ c. $\frac{2}{3}$ ✔
- ○ d. $\frac{3}{2}$ ✖

The correct answer is: $\frac{2}{3}$

Reduce the following fraction to its lowest terms.

$$\frac{8}{16} =$$

- ◉ a. $\frac{1}{2}$ ✔
- ○ b. $\frac{2}{4}$ ✖
- ○ c. $\frac{4}{8}$ ✖
- ○ d. $\frac{16}{32}$ ✖

The correct answer is: $\frac{1}{2}$

Question 7

Reduce the following fraction to its lowest terms.

$$\frac{6}{8} =$$

- a. $\frac{3}{8}$ ✖
- b. $\frac{2}{4}$ ✖
- c. $\frac{2}{3}$ ✖
- d. $\frac{3}{4}$ ✔

The correct answer is: $\frac{3}{4}$

Question 8

Rewrite the following as a mixed number, in lowest terms.

$$\frac{34}{3} =$$

- a. $10\frac{1}{3}$ ✖
- b. $10\frac{4}{3}$ ✖
- c. $11\frac{1}{3}$ ✔
- d. $12\frac{1}{3}$ ✖

The correct answer is: $11\frac{1}{3}$

Rewrite the following as a mixed number, in lowest terms.

$$\frac{19}{2} =$$

a. $8\frac{1}{4}$ ✗

b. $8\frac{3}{2}$ ✗

c. $9\frac{1}{2}$ ✓

d. $9\frac{2}{4}$ ✗

The correct answer is: $9\frac{1}{2}$

Rewrite the following as a mixed number, in lowest terms.

$$\frac{58}{8} =$$

a. $6\frac{5}{4}$ ✗

b. $7\frac{1}{4}$ ✓

c. $7\frac{2}{8}$ ✗

d. $8\frac{1}{4}$ ✗

The correct answer is: $7\frac{1}{4}$

Rewrite the following mixed number as an improper fraction.

$$8\frac{3}{8} =$$

a. $\dfrac{24}{8}$ ✗

b. $\dfrac{67}{8}$ ✓

c. $\dfrac{83}{8}$ ✗

d. $\dfrac{64}{3}$ ✗

The correct answer is: $\dfrac{67}{8}$

Rewrite the following mixed number as an improper fraction.

$$4\frac{2}{5} =$$

a. $\dfrac{5}{22}$ ✗

b. $\dfrac{8}{5}$ ✗

c. $\dfrac{22}{5}$ ✓

d. $\dfrac{22}{2}$ ✗

The correct answer is: $\dfrac{22}{5}$

Rewrite the following mixed number as an improper fraction.

$$7\frac{1}{4} =$$

- ○ a. $\dfrac{7}{4}$ ✖
- ○ b. $\dfrac{11}{4}$ ✖
- ◉ c. $\dfrac{29}{4}$ ✔
- ○ d. $\dfrac{33}{4}$ ✖

The correct answer is: $\dfrac{29}{4}$

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{1}{16} + \frac{3}{16} =$$

- ○ a. $\dfrac{4}{32}$ ✖
- ○ b. $\dfrac{4}{16}$ ✖
- ◉ c. $\dfrac{1}{4}$ ✔
- ○ d. $\dfrac{4}{8}$ ✖

The correct answer is: $\dfrac{1}{4}$

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{1}{2} + \frac{5}{8} =$$

- ○ a. $\frac{5}{16}$ ✗
- ○ b. $1\frac{1}{9}$ ✗
- ◉ c. $1\frac{1}{8}$ ✓
- ○ d. $\frac{19}{8}$ ✗

The correct answer is: $1\frac{1}{8}$

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{9}{35} + \frac{5}{7} =$$

- ○ a. $\frac{2}{7}$ ✗
- ○ b. $\frac{14}{42}$ ✗
- ◉ c. $\frac{34}{35}$ ✓
- ○ d. $\frac{44}{25}$ ✗

The correct answer is: $\frac{34}{35}$

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{3}{8} + \frac{5}{16} =$$

a. $\frac{1}{16}$ ✖

b. $\frac{5}{8}$ ✖

c. $\frac{8}{24}$ ✖

d. $\frac{11}{16}$ ✔

The correct answer is: $\frac{11}{16}$

Solve the following problem and reduce the answer to its lowest terms.

$$13\frac{1}{2} + 3\frac{1}{4} =$$

a. $3\frac{1}{4}$ ✖

b. $15\frac{1}{4}$ ✖

c. $16\frac{3}{4}$ ✔

d. $17\frac{1}{4}$ ✖

The correct answer is: $16\frac{3}{4}$

Solve the following problem and reduce the answer to its lowest terms.

$$22\frac{3}{4} + 2\frac{5}{8} =$$

- ○ a. $20\frac{1}{8}$ ✗
- ○ b. $20\frac{11}{8}$ ✗
- ○ c. $24\frac{11}{8}$ ✗
- ● d. $25\frac{3}{8}$ ✓

The correct answer is: $25\frac{3}{8}$

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{11}{32} - \frac{5}{32} =$$

- ● a. $\frac{3}{16}$ ✓
- ○ b. $\frac{8}{16}$ ✗
- ○ c. $\frac{11}{16}$ ✗
- ○ d. $\frac{16}{32}$ ✗

The correct answer is: $\frac{3}{16}$

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{3}{4} - \frac{1}{2} =$$

a. $\frac{1}{4}$ ✓

b. $\frac{3}{8}$ ✗

c. $\frac{2}{3}$ ✗

d. $\frac{4}{6}$ ✗

The correct answer is: $\frac{1}{4}$

Solve the following problem and reduce the answer to its lowest terms.

$$13\frac{7}{8} - 4\frac{1}{2} =$$

a. $9\frac{3}{8}$ ✓

b. $8\frac{9}{3}$ ✗

c. $11\frac{3}{8}$ ✗

d. $17\frac{11}{8}$ ✗

The correct answer is: $9\frac{3}{8}$

Solve the following problem and reduce the answer to its lowest terms.

$$4\frac{7}{16} - 2\frac{9}{16} =$$

- a. $1\frac{7}{16}$ ✗
- b. $1\frac{14}{16}$ ✗
- c. $1\frac{7}{8}$ ✓
- d. $2\frac{1}{8}$ ✗

The correct answer is: $1\frac{7}{8}$

Solve the following problem and reduce the answer to its lowest terms.

$$6 - 2\frac{2}{3} =$$

- a. $2\frac{4}{3}$ ✗
- b. $3\frac{1}{3}$ ✓
- c. $3\frac{5}{3}$ ✗
- d. $4\frac{2}{3}$ ✗

The correct answer is: $3\frac{1}{3}$

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{1}{2} \times \frac{3}{4} =$$

- a. $\frac{8}{4}$ ✗
- b. $\frac{4}{6}$ ✗
- c. $\frac{3}{8}$ ✓
- d. $\frac{4}{8}$ ✗

The correct answer is: $\frac{3}{8}$

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{5}{8} \times \frac{2}{3} =$$

- a. $\frac{7}{24}$ ✗
- b. $\frac{5}{12}$ ✓
- c. $\frac{10}{24}$ ✗
- d. $\frac{7}{12}$ ✗

The correct answer is: $\frac{5}{12}$

Solve the following problem and reduce the answer to its lowest terms.

$$3\frac{1}{2} \times 4\frac{1}{3} =$$

- a. $6\frac{3}{4}$ ✗
- b. $7\frac{5}{16}$ ✗
- c. $15\frac{1}{6}$ ✓
- d. $16\frac{1}{5}$ ✗

The correct answer is: $15\frac{1}{6}$

Solve the following problem and reduce the answer to its lowest terms.

$$3\frac{4}{9} \times \frac{3}{5} =$$

- a. $\frac{31}{15}$ ✗
- b. $\frac{93}{45}$ ✗
- c. $2\frac{1}{15}$ ✓
- d. $3\frac{38}{45}$ ✗

The correct answer is: $2\frac{1}{15}$

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{3}{4} \div \frac{3}{16} =$$

a. $\dfrac{9}{64}$ ✖

b. $\dfrac{12}{48}$ ✖

c. $\dfrac{15}{16}$ ✖

d. 4 ✔

The correct answer is: 4

Solve the following problem and reduce the answer to its lowest terms.

$$\frac{5}{8} \div 3 =$$

a. $\dfrac{5}{24}$ ✔

b. 3 ✖

c. $\dfrac{15}{8}$ ✖

d. $3\dfrac{5}{8}$ ✖

The correct answer is: $\dfrac{5}{24}$

Solve the following problem and reduce the answer to its lowest terms.

$$3\frac{3}{4} \div 2\frac{5}{8} =$$

- a. $\frac{7}{10}$ ✗
- b. $1\frac{3}{7}$ ✓
- c. $3\frac{1}{8}$ ✗
- d. $6\frac{3}{8}$ ✗

The correct answer is: $1\frac{3}{7}$

Reduce the fraction in the following statement to lowest terms. The voltage ratio of a distribution transformer is:

$$\frac{480}{7800}$$

- a. $\frac{4}{15}$ ✗
- b. $\frac{3}{65}$ ✗
- c. $\frac{4}{65}$ ✓
- d. $\frac{240}{130}$ ✗

The correct answer is: $\frac{4}{65}$

A 35-foot pole is sawed into five equal parts. The combined length of three of these parts is 21 feet. What fractional part of the entire pole do these three pieces represent?

a. $\dfrac{3}{5}$ ✔

b. $\dfrac{5}{7}$ ✘

c. $\dfrac{7}{21}$ ✘

d. $\dfrac{3}{31}$ ✘

The correct answer is: $\dfrac{3}{5}$

What is the total thickness of six washers each with a thickness of:

$\dfrac{3}{16}$ inch?

a. $1\dfrac{1}{8}$ ✔

b. $1\dfrac{2}{16}$ ✘

c. $1\dfrac{5}{16}$ ✘

d. $6\dfrac{3}{16}$ ✘

The correct answer is: $1\dfrac{1}{8}$

Nine-sixteenths of the total cost of a job is calculated to be the cost of materials. If a job was bid at $94,000, what was the estimated cost of materials for this job?

$$\frac{9}{16}$$

- a. $27,562.50 ✖
- b. $52,875.00 ✔
- c. $58,257.00 ✖
- d. $167,111.11 ✖

The correct answer is: $52,875.00

One-fourth of a ton of copper wire would cost how much if the wire costs $928 per ton?

$$\frac{1}{4}$$

- a. $223.00 ✖
- b. $232.00 ✔
- c. $323.00 ✖
- d. $3,712.00 ✖

The correct answer is: $232.00

How many square feet (area in square feet is equal to the length measured in feet times the width measured in feet) does a tarpaulin cover have if the tarp dimensions are:

$10\frac{3}{4}$ feet long $\times$ $7\frac{3}{8}$ feet wide

a. $18\frac{1}{8}$ ✗

b. $36\frac{2}{4}$ ✗

c. $79\frac{9}{32}$ ✓

d. $97\frac{7}{32}$ ✗

The correct answer is: $79\frac{9}{32}$