

Mathematics Post-test #1
Arithmetic of fractions

1. Prime factor 154.

- a. $14 \cdot 11$ b. $2 \cdot 7^2$ c. $2 \cdot 7 \cdot 11$ d. it is prime

2. Simplify the fraction $\frac{60}{95}$

- a. $\frac{5}{19}$ b. $\frac{12}{5}$ c. $\frac{60}{95}$ d. $\frac{12}{19}$

3. Subtract and simplify, if possible: $\frac{18}{48} - \frac{3}{48}$

- a. $\frac{15}{24}$ b. $\frac{15}{48}$ c. $\frac{5}{24}$ d. $\frac{5}{16}$

4. Add and simplify, if possible:

$$\begin{array}{r} 8\frac{5}{9} \\ + 4\frac{4}{9} \\ \hline \end{array}$$

- a. 12 b. 13 c. $12\frac{1}{9}$ d. $12\frac{1}{2}$

5. Multiply and write the product in simplest form: $\frac{5}{14} \cdot \frac{21}{35}$

- a. $\frac{26}{490}$ b. $\frac{3}{14}$ c. $\frac{13}{21}$ d. $\frac{13}{42}$

6. Build up the following fraction: $\frac{2}{15} = \frac{\quad}{45}$

a. $\frac{2}{45}$

b. $\frac{13}{45}$

c. $\frac{12}{45}$

d. $\frac{6}{45}$

7. Find the Lowest Common Denominator of the following fractions:

$\frac{5}{24}$ and $\frac{1}{18}$

a. 6

b. 42

c. 72

d. 432

8. Subtract and simplify, if possible:

$$\begin{array}{r} 20\frac{1}{5} \\ - \frac{20}{25} \\ \hline \end{array}$$

a. $19\frac{19}{25}$

b. $19\frac{2}{5}$

c. $20\frac{2}{5}$

d. $19\frac{1}{25}$

9. Add and simplify, if possible: $5\frac{2}{7} + 2\frac{7}{8}$

a. $7\frac{1}{4}$

b. $8\frac{5}{28}$

c. $8\frac{9}{56}$

d. $7\frac{1}{15}$