Do The Math Now!,
Fraction Fundamentals: Semester Test
Beginning-of-Semester Test

1. What fraction of the strip is shaded?
   - \( \frac{1}{8} \)
   - \( \frac{1}{7} \)
   - \( \frac{7}{8} \)
   - \( \frac{8}{7} \)

2. What fraction of the strip is unshaded?
   - \( \frac{1}{4} \)
   - \( \frac{1}{3} \)
   - \( \frac{3}{4} \)
   - \( \frac{4}{3} \)

3. Use the fraction strips to answer the question. What is the missing number?
   \( \frac{4}{16} = \frac{\square}{8} \)
   - \( 1 \)
   - \( 2 \)
   - \( 4 \)
   - \( 8 \)

4. Use the fraction strips to answer the question. What is the missing number?
   \( \frac{1}{2} = \frac{2}{\square} \)
   - \( 2 \)
   - \( 4 \)
   - \( 8 \)
   - \( 16 \)
5. What is $\frac{13}{8}$ written as a mixed number?

- $1\frac{3}{8}$
- $1\frac{5}{8}$
- $5\frac{3}{8}$
- $5\frac{5}{8}$

6. What is $1\frac{5}{8}$ written as an improper fraction?

- $\frac{4}{3}$
- $\frac{5}{3}$
- $\frac{9}{3}$
- $\frac{11}{3}$

7. Choose the correct symbol to compare the fractions.

\[
\frac{1}{4} \text{ } \underline{\hspace{1cm}} \text{ } \frac{1}{6}
\]

- $<$
- $>$
- $=$

8. Choose the correct symbol to compare the fractions.

\[
\frac{7}{10} \text{ } \underline{\hspace{1cm}} \text{ } \frac{7}{8}
\]

- $<$
- $>$
- $=$
9. What fraction of the stars is shaded?

- $\frac{4}{10}$
- $\frac{2}{4}$
- $\frac{6}{10}$
- $\frac{4}{6}$

10. What fraction of the stars is large?

- $\frac{2}{10}$
- $\frac{1}{4}$
- $\frac{4}{10}$
- $\frac{2}{4}$

11. Choose the correct symbol to compare the fractions.

- $\frac{5}{6} < \frac{3}{4}$
- $\frac{5}{6} > \frac{3}{4}$
- $\frac{5}{6} = \frac{3}{4}$

12. Choose the correct symbol to compare the fractions.

- $\frac{7}{8} < \frac{11}{12}$
- $\frac{7}{8} > \frac{11}{12}$
- $\frac{7}{8} = \frac{11}{12}$
13. What is the sum?

\[ \frac{1}{6} + \frac{1}{6} = \]

- \(\frac{1}{12}\)
- \(\frac{1}{8}\)
- \(\frac{2}{12}\)
- \(\frac{2}{6}\)

14. What is the missing number?

\[ \frac{17}{12} - \frac{12}{12} = \] \(\_)\)

- 5
- 9
- 22
- 29

15. Which is the best estimate?

\[ \frac{1}{2} + \frac{4}{6} = \]

- < 1
- > 1
- = 1

16. Which is the best estimate?

\[ \frac{7}{12} - \frac{1}{4} = \]

- < 1
- > 1
- = 1
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17. What is the sum?
\[
\frac{5}{6} + \frac{2}{3} = \underline{\hspace{2cm}}
\]
- \( \frac{1}{6} \)
- \( \frac{1}{2} \)
- \( \frac{2}{3} \)
- \( \frac{7}{9} \)

18. What is the sum?
\[
1\frac{2}{5} + \frac{1}{2} = \underline{\hspace{2cm}}
\]
- \( \frac{3}{7} \)
- \( \frac{9}{20} \)
- \( \frac{3}{5} \)
- \( \frac{9}{10} \)

19. What is the difference?
\[
1\frac{1}{8} - \frac{3}{4} = \underline{\hspace{2cm}}
\]
- \( \frac{3}{8} \)
- \( \frac{5}{8} \)
- \( \frac{3}{4} \)
- \( 1 \)

20. What is the difference?
\[
\frac{1}{4} - \frac{1}{6} = \underline{\hspace{2cm}}
\]
- \( \frac{1}{24} \)
- \( \frac{1}{12} \)
- \( \frac{1}{6} \)
- \( \frac{1}{2} \)