

4.NF.3.C-TESTB1 Add and subtract mixed numbers with like denominators

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. $6\frac{3}{8} + 4\frac{2}{8} =$

a. $10\frac{5}{16}$

b. $9\frac{5}{8}$

c. $10\frac{4}{8}$

d. $10\frac{5}{8}$

2. $5\frac{3}{8} - 2\frac{1}{8} =$

a. $2\frac{2}{4}$

b. $3\frac{2}{16}$

c. $3\frac{2}{8}$

d. $2\frac{2}{8}$

3. $12\frac{7}{12} - 4\frac{5}{12} =$

a. $8\frac{2}{12}$

b. $8\frac{2}{24}$

c. $8\frac{1}{12}$

d. $7\frac{2}{12}$

4. $7 - 6\frac{1}{2} =$

a. $\frac{1}{2}$

b. 1

c. 2

d. $13\frac{1}{2}$

5. $3\frac{7}{10} - 1\frac{3}{10} =$

a. $2\frac{4}{10}$

b. $4\frac{10}{10}$

c. $4\frac{4}{10}$

d. $2\frac{4}{0}$

6. $4\frac{1}{12} + 3\frac{7}{12} =$

a. $6\frac{8}{12}$

b. $7\frac{8}{24}$

c. $7\frac{8}{12}$

d. $7\frac{9}{12}$

7. $10\frac{1}{4} + 5\frac{3}{4} =$

a. 15

b. $15\frac{4}{4}$ -or- 16

c. $15\frac{3}{4}$

d. $16\frac{4}{4}$

8. $8\frac{7}{10} + 6\frac{2}{10} =$

a. $15\frac{9}{10}$

b. $13\frac{9}{10}$

c. $14\frac{9}{10}$

d. $14\frac{9}{20}$

9. $2\frac{4}{11} + 2\frac{3}{11} =$

a. $4\frac{8}{11}$

b. $4\frac{6}{11}$

c. $4\frac{7}{22}$

d. $4\frac{7}{11}$

10. $9\frac{11}{16} - 7\frac{5}{16} =$

a. $2\frac{5}{16}$

b. $2\frac{6}{16}$

c. $2\frac{16}{16}$

d. $1\frac{6}{16}$

Answer 1: D

Before adding and subtracting fractions, denominators must be the same or common. In order to add $1/2$ to $1/4$, you must convert $1/2$ to the equivalent fraction $2/4$. $2/4 + 1/4 = 3/4$ (When adding and subtracting fractions, you add or subtract only the numerators - the top numbers.)

This test requires you to add and subtract mixed numbers. The fractions will have common denominators.

Addition example: $3\frac{7}{12} + 2\frac{1}{12} = 5\frac{8}{12}$ $5\frac{8}{12}$ is equivalent to $5\frac{4}{6}$ and $5\frac{2}{3}$. $5\frac{2}{3}$ is the simplest form of this mixed number.

Subtraction example: $12\frac{7}{9} - 6\frac{4}{9} = 6\frac{3}{9}$ $6\frac{3}{9}$ is equivalent to $6\frac{1}{3}$. $6\frac{1}{3}$ is the simplest form of this mixed number.

Answer 2: C

Answer 3: A

Answer 4: A

Answer 5: A

Answer 6: C

Answer 7: B

Answer 8: C

Answer 9: D

Answer 10: B