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5.NF.B.3 Convert Improper Fractions to Mixed Numbers

5.NF.B.3: Interpret a fraction as a division of the numerator by the denominator (a/b = a ÷ b).

1. Convert the following improper fractions to mixed number. Simplify your answer.

a. $\frac{61}{10}$ e. $\frac{11}{4}$

b. $\frac{36}{7}$ f. $\frac{9}{4}$

c. $\frac{21}{4}$ g. $\frac{18}{5}$

d. $\frac{37}{12}$ h. $\frac{14}{3}$

Solution:

a.   e.
b.   f.
c.   g.
d.   h.

2. Convert each mixed number to improper fraction.

a. $2\frac{3}{7}$ d. $4\frac{5}{8}$

b. $3\frac{5}{6}$ e. $6\frac{2}{3}$

c. $3\frac{3}{4}$ f. $4\frac{3}{5}$

Solution:

a.   d.
b.   e.
c.   f.

3. Jaida went gold panning and found $\frac{6}{5}$ pounds of gold. The next day she found $\frac{13}{4}$ pounds more. How much total gold did Jaida find? Write your answer as a mixed number.

Solution:

4. Jonathan collected $\frac{9}{2}$ kilograms of filberts. He gave $\frac{11}{4}$ kilograms to his friend. How many kilograms of filberts does Jonathan have now? Write your answer as a mixed number.

Solution:

5. I have 82 eggs and 6 buckets. How many eggs go into each bucket? Convert your answer to a mixed number in simplest form.

Solution:

6. Which of the following mixed number is equal to $\frac{13}{2}$?

a. $6\frac{1}{2}$ c. $5\frac{2}{2}$

b. $6\frac{3}{4}$ d. $5\frac{2}{4}$

Solution:

7. Which of the following mixed number is equal to $\frac{21}{6}$?

a. $3\frac{2}{2}$ c. $2\frac{1}{4}$

b. $3\frac{1}{2}$ d. $4\frac{2}{5}$

Solution:

5.NF.B.3: Interpret a fraction as a division of the numerator by the denominator (a/b =a ÷b).

Answer Key

1.
   a. $6\frac{1}{10}$
   b. $5\frac{1}{7}$
   c. $5\frac{1}{4}$
   d. $3\frac{1}{12}$
   e. $2\frac{3}{4}$
   f. $2\frac{1}{4}$
   g. $3\frac{3}{5}$
   h. $4\frac{2}{3}$

2.
   a. $\frac{17}{7}$
   b. $\frac{23}{6}$
   c. $\frac{15}{4}$
   d. $\frac{37}{8}$
   e. $\frac{20}{3}$
   f. $\frac{23}{5}$

3. $\frac{89}{20}$; $4\frac{9}{20}$
4. $\frac{7}{4}$; $1\frac{3}{4}$
5. $\frac{82}{6}$; $13\frac{2}{3}$
6. A.
7. B.