tutorified

Convert a Decimals to a Fractions and Vice Versa

1. Convert each of the decimals to a fraction.
   a. 5.4
   b. 8.025
   c. 4.625
   d. 0.001
   e. 5.004
   f. 3.02

Solution:
a. d.
b. e.
c. f.

2. Write an equivalent decimal for each fraction.
   a. $1\frac{7}{50}$
   b. $\frac{5}{4}$
   c. $8\frac{1}{25}$
   d. $6\frac{3}{20}$
   e. $\frac{72}{5}$
   f. $\frac{427}{2000}$

Solution:
a. d.
b. e.
c. f.

3. Clara rode a bike for $2\frac{4}{5}$ miles long. While Jarred rode a bike for $3\frac{1}{4}$ miles long. Convert both the distances to decimals. Who rode a bike for the longer distance?

Solution:

4. Jacky's cat Missy eat $2\frac{3}{4}$ cups of cat food each day. Another cat, Coco eats about 2.6 cups of food each day. Which cat eats more food each day?

Solution:

5. Chloe is 4.8 feet tall. Her friend, Jules is 6 feet and 3 inches tall. How much taller is Jules than Chloe? Convert the answer in a mixed number.

Solution:

6. Which of these fractions is equivalent to 7.625?
   A. $7\frac{3}{4}$
   B. $7\frac{3}{8}$
   C. $7\frac{5}{8}$
   D. $7\frac{1}{16}$

Solution:

7. Which of the following are equivalent?
   A. $\frac{3}{8}$ and 0.625
   B. $\frac{3}{8}$ and 0.375
   C. $\frac{3}{8}$ and 0.125
   D. $\frac{3}{8}$ and 0.25

Solution:

tutorified

Convert a Decimals to a Fractions and Vice Versa

Answer Key

1. Convert each of the decimals to a fraction.
   a. 5.4
   b. 8.025
   c. 4.625
   d. 0.001
   e. 5.004
   f. 3.02

Solution:
a. $5\frac{2}{5}$
b. $8\frac{1}{40}$
c. $4\frac{5}{8}$
d. $\frac{1}{1000}$
e. $5\frac{1}{250}$
f. $3\frac{1}{50}$

2. Write an equivalent decimal for each fraction.
   a. $1\frac{7}{50}$
   b. $\frac{5}{4}$
   c. $8\frac{1}{25}$
   d. $6\frac{3}{20}$
   e. $\frac{72}{5}$
   f. $\frac{427}{2000}$

Solution:
a. 1.14
b. 1.25
c. 8.04
d. 6.15
e. 14.4
f. 0.2135

3. Clara rode a bike for $2\frac{4}{5}$ miles long. While Jarred rode a bike for $3\frac{1}{4}$ miles long. Convert both the distances to decimals. Who rode a bike for the longer distance?

Solution:
$2\frac{4}{5}$ = 2.8 miles;
$3\frac{1}{4}$ = 3.25 miles; Jarred

4. Jacky's cat Missy eat $2\frac{3}{4}$ cups of cat food each day. Another cat, Coco eats about 2.6 cups of food each day. Which cat eats more food each day?

Solution: Missy

5. Chloe is 4.8 feet tall. Her friend, Jules is 6 feet and 3 inches tall. How much taller is Jules than Chloe? Convert the answer in a mixed number.

Solution: $1\frac{9}{20}$ feet

6. Which of these fractions is equivalent to 7.625?
   A. $7\frac{3}{4}$
   B. $7\frac{3}{8}$
   C. $7\frac{5}{8}$
   D. $7\frac{1}{16}$

Solution: C

7. Which of the following are equivalent?
   A. $\frac{3}{8}$ and 0.625
   B. $\frac{3}{8}$ and 0.375
   C. $\frac{3}{8}$ and 0.125
   D. $\frac{3}{8}$ and 0.25

Solution: B