

Decimals and Fractions

1. Convert each of the decimals to a fraction.

- | | |
|----------|----------|
| a. 3.75 | d. 5.90 |
| b. 8.875 | e. 5.425 |
| c. 0.20 | f. 3.65 |

Solution:

- | | |
|----|----|
| a. | d. |
| b. | e. |
| c. | f. |

2. Write an equivalent decimal for each fraction.

- | | |
|-----------------------|-----------------------|
| a. $3\frac{7}{25}$ | d. $4\frac{5}{8}$ |
| b. $\frac{178}{400}$ | e. $\frac{213}{25}$ |
| c. $5\frac{46}{1000}$ | f. $\frac{8347}{100}$ |

Solution:

- | | |
|----|----|
| a. | d. |
| b. | e. |
| c. | f. |

3. Maureen spent 2 hours and 36 minutes riding a bike. She spent $2\frac{2}{3}$ hours playing a piano. Which activity did she spend more time?

Solution:

4. Equivalent or not equivalent?

- | | |
|--------------------------------------|---------------------------------|
| a. $\frac{11}{40}$ and 0.275 | d. 2.25 and $\frac{9}{4}$ |
| b. 3.09 and 3.9 | e. $3\frac{15}{1000}$ and 3.015 |
| c. $2\frac{3}{8}$ and $\frac{23}{8}$ | f. $1\frac{17}{100}$ and 1.017 |

Solution:

- | | |
|----|----|
| a. | d. |
| b. | e. |
| c. | f. |

5. Which fraction is not equivalent to 0.425?

- | | |
|----------------------|----------------------|
| A. $\frac{170}{200}$ | C. $\frac{34}{80}$ |
| B. $\frac{170}{400}$ | D. $\frac{340}{800}$ |

Solution:

6. An Aloe Vera plant is 4 inches long. Juliet observed that plant grows $\frac{3}{10}$ inch each day. What will be the height of plant after 7 days? Write your answer in decimal form.

Solution:

7. The length of a dining table in Smith family's home is 96.2 inches. The width of the same table is $45\frac{3}{4}$ inches. Find the difference between the height and the width of the window as a mixed number.

Solution:

Decimals and Fractions

Answer Key

1. Convert each of the decimals to a fraction.

- | | |
|----------|----------|
| a. 3.75 | d. 5.90 |
| b. 8.875 | e. 5.425 |
| c. 0.20 | f. 3.65 |

Solution:

- | | |
|-------------------|---------------------|
| a. $3\frac{3}{4}$ | d. $5\frac{9}{10}$ |
| b. $8\frac{7}{8}$ | e. $5\frac{17}{40}$ |
| c. $\frac{1}{5}$ | f. $3\frac{13}{20}$ |

2. Write an equivalent decimal for each fraction.

- | | |
|-----------------------|-----------------------|
| a. $3\frac{7}{25}$ | d. $4\frac{5}{8}$ |
| b. $\frac{178}{400}$ | e. $\frac{213}{25}$ |
| c. $5\frac{46}{1000}$ | f. $\frac{8347}{100}$ |

Solution:

- | | |
|----------|----------|
| a. 3.28 | d. 4.625 |
| b. 0.445 | e. 8.52 |
| c. 5.046 | f. 83.47 |

3. Maureen spent 2 hours and 36 minutes riding a bike. She spent $2\frac{2}{3}$ hours playing a piano. Which activity did she spend more time?

Solution:

Playing a piano

4. Equivalent or not equivalent?

- | | |
|--------------------------------------|---------------------------------|
| a. $\frac{11}{40}$ and 0.275 | d. 2.25 and $\frac{9}{4}$ |
| b. 3.09 and 3.9 | e. $3\frac{15}{1000}$ and 3.015 |
| c. $2\frac{3}{8}$ and $\frac{23}{8}$ | f. $1\frac{17}{100}$ and 1.017 |

Solution:

- | | |
|-------------------|-------------------|
| a. Equivalent | d. Equivalent |
| b. Not equivalent | e. Equivalent |
| c. Not equivalent | f. Not equivalent |

5. Which fraction is not equivalent to 0.425?

- | | |
|----------------------|----------------------|
| A. $\frac{170}{200}$ | C. $\frac{34}{80}$ |
| B. $\frac{17}{40}$ | D. $\frac{340}{800}$ |

Solution: A

6. An Aloe Vera plant is 4 inches long. Juliet observed that plant grows $\frac{3}{10}$ inch each day. What will be the height of plant after 7 days? Write your answer in decimal form.

Solution: 6.1 inches

7. The length of a dining table in Smith family's home is 96.2 inches. The width of the same table is $45\frac{3}{4}$ inches. Find the difference between the height and the width of the window as a mixed number.

Solution: $50\frac{9}{20}$ inches