

**1) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.4 but smaller than 0.6 and when I convert my fraction to a decimal it has one decimal place.

**2) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.1 but smaller than 0.3 and when I convert my fraction to a decimal it has one decimal place.

**3) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.5 but smaller than 0.8 and when I convert my fraction to a decimal it has one decimal place.

**4) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.6 but smaller than 0.9 and when I convert my fraction to a decimal it has one decimal place.

**5) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.2 but smaller than 0.5 and when I convert my fraction to a decimal it has one decimal place.

**6) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.7 but smaller than 1 and when I convert my fraction to a decimal it has one decimal place.

**7) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.3 but smaller than 0.6 and when I convert my fraction to a decimal it has one decimal place.

**8) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.1 but smaller than 0.4 and when I convert my fraction to a decimal it has one decimal place.

**9) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.8 but smaller than 1 and when I convert my fraction to a decimal it has one decimal place.

**10) What is the simplest fraction the person could be thinking of?**

My fraction is larger than 0.25 but smaller than 0.45 and when I convert my fraction to a decimal it has one decimal place.

**Solution 1**

- Decimals with 1 decimal place between 0.4 and 0.6: 0.5
- Convert to a fraction:  $0.5 = \frac{5}{10}$
- Simplify:  $\frac{5}{10} = \frac{1}{2}$
- **Answer:  $\frac{1}{2}$**

**Solution 2**

- Decimals with 1 decimal place between 0.1 and 0.3: 0.2
- Convert to a fraction:  $0.2 = \frac{2}{10}$
- Simplify:  $\frac{2}{10} = \frac{1}{5}$
- **Answer:  $\frac{1}{5}$**

**Solution 3**

- Decimals with 1 decimal place between 0.5 and 0.8: 0.6 or 0.7
- Convert:  $0.6 = \frac{6}{10} = \frac{3}{5}$
- Convert:  $0.7 = \frac{7}{10}$  (already simplest)
- Choose the simplest fraction (smallest denominator):  $\frac{3}{5}$
- **Answer:  $\frac{3}{5}$**

**Solution 4**

- Decimals with 1 decimal place between 0.6 and 0.9: 0.7 or 0.8
- Convert:  $0.7 = \frac{7}{10}$  (already simplest)
- Convert:  $0.8 = \frac{8}{10} = \frac{4}{5}$
- Choose the simplest fraction (smallest denominator):  $\frac{4}{5}$
- **Answer:  $\frac{4}{5}$**

### Solution 5

- Decimals with 1 decimal place between 0.2 and 0.5: 0.3 or 0.4
- Convert:  $0.3 = \frac{3}{10}$  (already simplest)
- Convert:  $0.4 = \frac{4}{10} = \frac{2}{5}$
- Choose the simplest fraction (smallest denominator):  $\frac{2}{5}$
- **Answer:  $\frac{2}{5}$**

### Solution 6

- Decimals with 1 decimal place between 0.7 and 1.0: 0.8 or 0.9
- Convert:  $0.8 = \frac{8}{10} = \frac{4}{5}$
- Convert:  $0.9 = \frac{9}{10}$  (already simplest)
- Choose the simplest fraction (smallest denominator):  $\frac{4}{5}$
- **Answer:  $\frac{4}{5}$**

### Solution 7

- Decimals with 1 decimal place between 0.3 and 0.6: 0.4 or 0.5
- Convert:  $0.4 = \frac{4}{10} = \frac{2}{5}$
- Convert:  $0.5 = \frac{5}{10} = \frac{1}{2}$
- Choose the simplest fraction (smallest denominator):  $\frac{1}{2}$
- **Answer:  $\frac{1}{2}$**

### Solution 8

- Decimals with 1 decimal place between 0.1 and 0.4: 0.2 or 0.3
- Convert:  $0.2 = \frac{2}{10} = \frac{1}{5}$
- Convert:  $0.3 = \frac{3}{10}$  (already simplest)
- Choose the simplest fraction (smallest denominator):  $\frac{1}{5}$
- **Answer:  $\frac{1}{5}$**

### Solution 9

- Decimals with 1 decimal place between 0.8 and 1.0: 0.9

## Maths with Melissa

- Convert to a fraction:  $0.9 = 9/10$
- $9/10$  is already simplest
- **Answer:  $9/10$**

### Solution 10

- Decimals with 1 decimal place between 0.25 and 0.45: 0.3 or 0.4
- Convert:  $0.3 = 3/10$  (already simplest)
- Convert:  $0.4 = 4/10 = 2/5$
- Choose the simplest fraction (smallest denominator):  $2/5$
- **Answer:  $2/5$**