

Fractions

Q1. Choose the correct option:

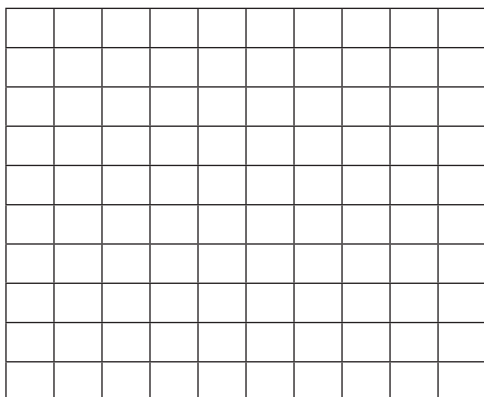
A fraction $\frac{a}{b}$ is said to be in its simplest form if and only if:

- The HCF of a and b is zero.
- The HCF of a and b is 1.
- The LCM of a and b is zero.
- The LCM of a and b is 1.

Q2. Find the fraction of the shaded portion in the figure given below and express it as a fraction with denominator 100. Shade the appropriate number of squares in the 100 square matrix.



Fraction of shaded part = $\frac{\square}{\square} = \frac{\square}{100}$



Q3. Classify the given fractions as mixed, improper, unit, complex and decimal and write them under appropriate headings:

$$\frac{123}{54}, 4\frac{5}{7}, \frac{3}{7}, \frac{49}{100}, \frac{1}{113}$$

Answer:

Mixed Fraction	Improper Fraction	Unit Fraction	Complex Fraction	Decimal Fraction

Q4. Find any two fractions lying between $\frac{1}{5}$ and $\frac{3}{7}$.

Answer: _____

Q5. Represent $\frac{125}{135}$ as a fraction with the following denominators:

a. With denominator 27: $\frac{\square}{\square}$

b. With denominator 405: $\frac{\square}{\square}$

Q6. Convert the given complex fractions into simple fractions:

a. $\frac{\frac{1}{9}}{1\frac{8}{27}} = \frac{\square}{\square}$

b. $\frac{2\frac{14}{45}}{2\frac{3}{5}} = \frac{\square}{\square}$

Q7. What is the least fraction that should be added to $4\frac{1}{3}$ to make it a whole number divisible by 3?

Answer: _____

Q8. Multiply $\frac{11}{240}$ with the reciprocal of $\frac{1}{44}$ and add the result to a unit fraction with denominator 10.

Answer: _____

Q9. Find the number when 4 is divided by a unit fraction with denominator 20.

Answer: _____

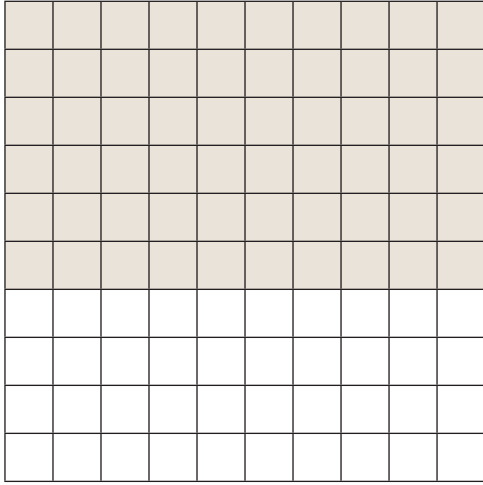
Q10. Rashmi studies from 3:30 p.m. to 6:30 p.m. everyday. Find the fraction of the day that Rashmi spends in studying.

Answer: _____

Answers

1. (b)

2. $\frac{3}{5} = \frac{60}{100}$



3.

Mixed Fraction	Improper Fraction	Unit Fraction	Complex Fraction	Decimal Fraction
$4\frac{5}{7}$	$\frac{123}{54}$	$\frac{1}{113}$	$\frac{\frac{2}{3}}{\frac{3}{7}}$	$\frac{49}{100}$

4. $\frac{1}{3}; \frac{7}{19}$

5. a. $\frac{25}{27}$; b. $\frac{375}{405}$

6. a. $\frac{3}{35}$; b. $\frac{8}{9}$

7. $\frac{2}{3}$

8. $2\frac{7}{60}$

9. 80

10. $\frac{1}{8}$ of the day