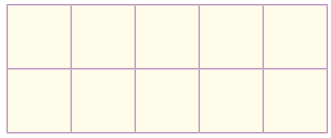
FRACTIONS

5

Q1. Find the sum of $\frac{1}{5}$ and $\frac{1}{2}$. Shade the correct number of squares in the figure given below expressing the sum of the given fractions.



Q2. Reduce the following fractions to their simplest form and write the fraction that is less than $\frac{1}{5}$

$\frac{4}{16}, \frac{33}{99}, \frac{16}{96}$

Answer: _____

Q3. Find an equivalent fraction for the following fractions with denominator 35:

a. $\frac{3}{7} = \frac{\square}{\square}$

b. $\frac{8}{140} = \frac{\square}{\square}$

Q4. Convert $3\frac{7}{9}$ into an equivalent improper fraction. Choose the correct option:

a. $\frac{34}{9}$

b. $\frac{66}{9}$

c. $\frac{34}{9}$

Q5. Write the fraction represented by point A on the number line:

Q6. Arrange the fractions in ascending order:

$\frac{2}{9}, \frac{7}{12}, \frac{5}{6}, \frac{23}{36}$

Answer: _____

Q7. Rashi solved an exercise in $\frac{4}{7}$ hour. Kartik solved the same exercise in $\frac{7}{12}$ hour. Who took less time? Also find the difference of the given durations.

Answer: _____

Difference = _____

Q8. How many one-fourths are there in 16?

Answer: _____

Q9. Rishabh bought 480 kg of fruits for his shop. In the fruits $\frac{1}{4}$ were apples, $\frac{1}{8}$ were mangoes and the rest were pineapples . Complete the missing entries in the table:

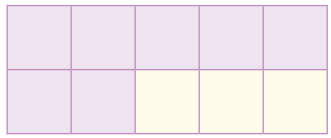
Fruit	Fraction of fruit	Weight of fruit (in kg)
Apples	$\frac{1}{4}$	_____
Mangoes	$\frac{1}{8}$	_____
Pineaaples	_____	_____

Q10. Simplify:

$$\frac{29}{36}+\left[1\frac{2}{3}+\left\{\frac{2}{9}\div\frac{1}{36}-\left(\frac{13}{72}-\frac{1}{6}\right)\right\}\right]$$

Answer: _____

ANSWERS

1. 

2. $\frac{16}{19}$

3. a. $\frac{15}{35}$

   b. $\frac{2}{35}$

4. (a)

5. 

   Points A represents $3\frac{3}{4}$

6. $\frac{2}{9} < \frac{7}{12} < \frac{23}{36} < \frac{5}{6}$

7. Rashi took less time. Difference= $\frac{1}{84}$ hour

8. 64

9.

Fruit	Fraction of fruit	Weight of fruit (in kg)
Apples	$\frac{1}{4}$	120
Mangoes	$\frac{1}{8}$	60
Pineaaples	$\frac{5}{8}$	300

10. $10\frac{11}{24}$