

CLASS NOTES

Class: VI	Topic: Fraction
Subject: Mathematics	Date – 05/10/21
	Day – Tuesday

Ex – 7.3

Question 8. Ramesh had 20 pencils, Sheelu had 50 pencils and Jamaal had 80 pencils. After 4 months, Ramesh used up 10 pencils, Sheelu used up 25 pencils and Jamaal used up 40 pencils. What fraction did each use up? Check if each has used up an equal fraction of her/his pencils?

Solution:

Ramesh: Total pencils = 20

Pencils used = 10

$$\text{Fraction} = \frac{10}{20} = \frac{1}{2}$$

Sheelu: Total pencils = 50

Pencils used = 25

$$\text{Fraction} = \frac{25}{50} = \frac{1}{2}$$

Jamaal: Total pencils = 80

Pencils used = 40

$$\text{Fraction} = \frac{40}{80} = \frac{1}{2}$$

Ans : Since, all of them used half of their pencils, therefore each one used up equal fraction of pencils.

Question -9

Match the equivalent fractions and write two more for each:

(i) $\frac{250}{400}$ (a) $\frac{2}{3}$

(ii) $\frac{180}{200}$ (b) $\frac{2}{5}$

(iii) $\frac{660}{990}$ (c) $\frac{1}{2}$

(iv) $\frac{180}{360}$ (d) $\frac{5}{8}$

(v) $\frac{220}{550}$ (e) $\frac{9}{10}$

Solution:

i) $\frac{250 \div 10}{400 \div 10} = \frac{25 \div 5}{40 \div 5} = \frac{5}{8}$ (d)

ii) $\frac{180}{200} = \frac{18 \div 2}{20 \div 2} = \frac{9}{10}$ (e)

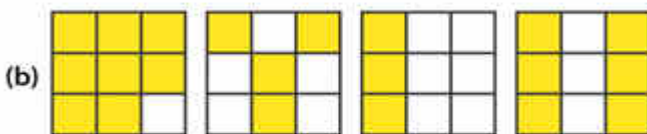
iii) $\frac{660}{990} = \frac{66 \div 11}{99 \div 11} = \frac{6 \div 3}{9 \div 3} = \frac{2}{3}$ (a)

iv) $\frac{180}{360} = \frac{18 \div 18}{36 \div 18} = \frac{1}{2}$ (c)

v) $\frac{220}{550} = \frac{22 \div 11}{55 \div 11} = \frac{2}{5}$ (b)

Ex- 7.4

Question 1. Write shaded portion as fraction. Arrange them in ascending and descending order using correct sign '<', '>', '=' between the fractions:



b) First square shows 8 shaded parts out of 9 equal parts. Hence, the fraction is $\frac{8}{9}$

Second square shows 4 shaded parts out of 9 equal parts. Hence, the fraction is $\frac{4}{9}$

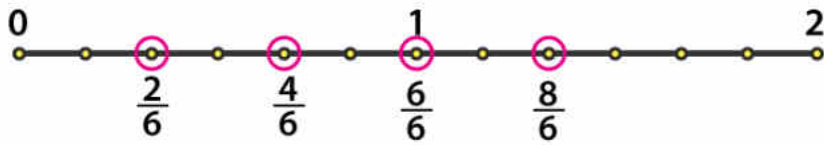
Third square shows 3 shaded parts out of 9 equal parts. Hence, the fraction is $\frac{3}{9}$

Fourth square shows 6 shaded parts out of 9 equal parts. Hence, the fraction is $\frac{6}{9}$

The arranged fractions are: $\frac{3}{9} < \frac{4}{9} < \frac{6}{9} < \frac{8}{9}$

c) Show $\frac{4}{6}$, $\frac{8}{6}$ and $\frac{6}{6}$ on the number line. Put appropriate signs between the fractions given.

$$\frac{5}{6} \square \frac{2}{6}, \quad \frac{3}{6} \square 0, \quad \frac{1}{6} \square \frac{6}{6}, \quad \frac{8}{6} \square \frac{5}{6}$$



$$\frac{5}{6} > \frac{2}{6}$$

$$\frac{1}{6} < \frac{6}{6}$$

$$\frac{3}{6} > 0$$

$$\frac{8}{6} > \frac{5}{6}$$

5. How quickly can you do this? Fill appropriate sign. ('<', '=', '>')

(a) $\frac{1}{2} \square \frac{1}{5}$

(b) $\frac{2}{4} \square \frac{3}{6}$

(c) $\frac{3}{5} \square \frac{2}{3}$

(d) $\frac{3}{4} \square \frac{2}{8}$

(e) $\frac{3}{5} \square \frac{6}{5}$

(f) $\frac{7}{9} \square \frac{3}{9}$

.....

(k) $\frac{5}{7} \square \frac{15}{21}$

SOLUTION:

(a) Here, the numerators are same. So, the fraction having lesser denominator is the greater

$$\therefore \frac{1}{2} > \frac{1}{5}$$

(b) $\frac{2}{4} = \frac{1}{2}$ and $\frac{3}{6} = \frac{1}{2}$

$$\therefore \frac{2}{4} = \frac{3}{6}$$

(c) $\frac{3}{5} = \frac{3 \times 3}{5 \times 3} = \frac{9}{15}$

$$\frac{2}{3} = \frac{2 \times 5}{3 \times 5} = \frac{10}{15}$$

Here, between $\frac{9}{15}$ and $\frac{10}{15}$ both have same denominators. Hence, the fraction having greater numerator will be the greater.

$$\therefore \frac{3}{5} < \frac{2}{3}$$

(d) Here, $\frac{2}{8} = \frac{1}{4}$

As, $\frac{3}{4}$ and $\frac{1}{4}$ have same denominators. Hence, the fraction having greater numerator will be the greater

$$\therefore \frac{3}{4} > \frac{2}{8}$$

(e) Here, the denominators are same. So, the fraction having greater numerator will be the greater

$$\therefore \frac{3}{5} < \frac{6}{5}$$

(f) Here, the denominators are same. So, the fraction having greater numerator will be the greater

$$\therefore \frac{7}{9} > \frac{3}{9}$$

(g) We know $\frac{2}{8} = \frac{1}{4}$

Hence, $\frac{1}{4} = \frac{2}{8}$

HOME ASSIGNMENT: EX- 7.4 – Q-1(a), 2), 3), 4) & 5) (h),(i), (j),(k).