

Q1: Choose the correct answer :-

- 1 The numerator of the fraction $\frac{5}{9}$ is
- (a) 9 (b) 4 (c) 5 (d) 14
- 2 Five eighths =
- (a) $\frac{5}{8}$ (b) $\frac{5}{13}$ (c) $\frac{8}{5}$ (d) $\frac{8}{13}$
- 3 $\frac{5}{\dots} = 1$
- (a) 2 (b) 3 (c) 5 (d) 10
- 4 Which of the following represents a unit fraction ?
- (a) $\frac{7}{4}$ (b) $\frac{7}{7}$ (c) $\frac{4}{7}$ (d) $\frac{1}{7}$
- 5 Which of the following expressions is equal to $\frac{7}{9}$?
- (a) $\frac{1}{3} + \frac{1}{3} + \frac{5}{3}$ (b) $\frac{1}{9} + \frac{2}{9} + \frac{2}{9}$ (c) $\frac{2}{4} + \frac{5}{5}$ (d) $\frac{4}{9} + \frac{3}{9}$
- 6 Which of the following is a proper fraction ?
- (a) $\frac{3}{7}$ (b) $\frac{5}{2}$ (c) $1\frac{1}{3}$ (d) $\frac{19}{18}$
- 7 Which of the following is an improper fraction ?
- (a) $\frac{4}{9}$ (b) $\frac{1}{6}$ (c) $1\frac{1}{5}$ (d) $\frac{4}{3}$
- 8 $4\frac{1}{2} = \dots\dots\dots$ (as an improper fraction)
- (a) $\frac{5}{2}$ (b) $\frac{7}{2}$ (c) $\frac{9}{2}$ (d) $\frac{9}{4}$

9 $\frac{5}{9} + \frac{4}{9} = \text{-----}$

- (a) $\frac{1}{9}$ (b) $\frac{9}{18}$ (c) 1 (d) $\frac{20}{81}$

10 $4 + \frac{7}{11} + 2 + \frac{1}{11} = \text{-----}$

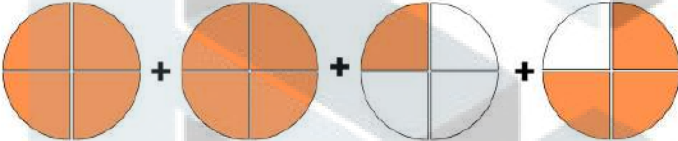
- (a) $6 \frac{8}{22}$ (b) $6 \frac{8}{11}$ (c) $2 \frac{6}{22}$ (d) $7 \frac{8}{11}$

11 $\frac{6}{10} - \frac{2}{10} = \text{-----}$

- (a) $\frac{8}{10}$ (b) $\frac{4}{10}$ (c) $\frac{4}{20}$ (d) $\frac{8}{20}$

12 $2 - \frac{5}{7} = \text{-----}$

- (a) $1 \frac{2}{7}$ (b) 1 (c) $\frac{10}{7}$ (d) $1 \frac{5}{7}$

13  = -----

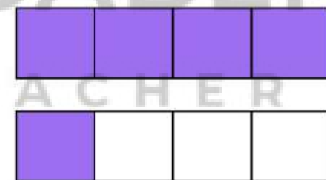
- (a) $2 \frac{1}{4}$ (b) $2 \frac{1}{2}$ (c) $2 \frac{3}{4}$ (d) 3

14 Which of the following mixed numbers is equal to $\frac{6}{5}$?

- (a) $1 \frac{1}{2}$ (b) $1 \frac{1}{12}$ (c) $1 \frac{1}{5}$ (d) $1 \frac{1}{6}$

15 The opposite model represents ?

- (a) $1 \frac{1}{3}$ (b) $\frac{5}{5}$
 (c) $\frac{4}{5}$ (d) $\frac{5}{4}$



16 Which of the following fractions is the least ?

- (a) $\frac{3}{5}$ (b) $\frac{2}{5}$ (c) $\frac{1}{5}$ (d) $\frac{4}{5}$


17 Which of the following fractions is the greatest?

a $\frac{3}{7}$

b $\frac{3}{6}$

c $\frac{3}{5}$

d $\frac{3}{8}$

18 $\frac{3}{5}$  $\frac{3}{4}$

a $<$

b $=$

c $>$

d other wise

19 Which of the following sentences is NOT true ?

a $\frac{2}{5} > \frac{4}{5}$

b $\frac{1}{6} < \frac{4}{6}$

c $\frac{5}{8} > \frac{3}{8}$

d $\frac{6}{7} < \frac{7}{7}$

20 Which relation is correct ?

a $\frac{7}{12} > \frac{7}{9}$

b $\frac{7}{8} < \frac{7}{10}$

c $\frac{7}{15} > \frac{7}{9}$

d $\frac{7}{13} < \frac{7}{11}$

21 $\frac{2}{9} <$ -----

a $\frac{2}{7}$

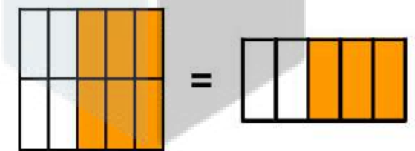
b $\frac{2}{10}$

c $\frac{2}{11}$

d $\frac{2}{12}$

22 What is the missing denominator ?

$\frac{6}{10} = \frac{3}{\square}$



a 3

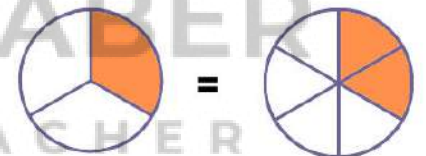
b 5

c 6

d 10

23 What is the missing numerator ?

$\frac{1}{3} = \frac{\square}{6}$



a 1

b 3

c 2

d 6

24 The fraction $\frac{5}{8}$ is nearest to the benchmark fraction -----

a $\frac{1}{2}$

b 1

c $1 \frac{1}{2}$

d 0

- 25 $\frac{8}{9}$ is closer to the benchmark fraction -----
- (a) 2 (b) 1 (c) $\frac{1}{2}$ (d) 0
- 26 Which of the following fractions is equal to $\frac{1}{2}$?
- (a) $\frac{4}{7}$ (b) $\frac{5}{10}$ (c) $\frac{6}{3}$ (d) $\frac{8}{8}$
- 27 Which of the following fractions is closer to 1 ?
- (a) $\frac{1}{7}$ (b) $\frac{4}{10}$ (c) $\frac{2}{11}$ (d) $\frac{10}{11}$
- 28 Which of the following fractions is the greatest ?
- (a) $\frac{10}{12}$ (b) $\frac{8}{7}$ (c) $\frac{9}{9}$ (d) $\frac{5}{6}$
- 29 $\frac{5}{6} \times 0 =$ -----
- (a) $\frac{5}{6}$ (b) 1 (c) 0 (d) $\frac{6}{5}$
- 30 $3 \times \frac{1}{7} =$ -----
- (a) $3 \frac{1}{7}$ (b) $\frac{31}{7}$ (c) $\frac{3}{7}$ (d) $\frac{1}{7}$
- 31 $\frac{1}{4} \times 5 =$ -----
- (a) $\frac{5}{4}$ (b) $\frac{1}{4}$ (c) $\frac{4}{5}$ (d) $\frac{1}{5}$
- 32 Which number fits in the blank ? $\frac{3}{4} = \frac{\square}{8}$
- (a) 2 (b) 4 (c) 6 (d) 8

33 Which number fits in the blank ? $\frac{2}{3} = \frac{18}{\square}$

- (a) 6 (b) 9 (c) 19 (d) 27

34 Which fraction is Not equivalent to $\frac{3}{9}$?

- (a) $\frac{6}{12}$ (b) $\frac{5}{15}$ (c) $\frac{2}{6}$ (d) $\frac{1}{3}$

35 The fraction $\frac{1}{2}$ is equivalent to -----

- (a) $\frac{1}{3}$ (b) $\frac{3}{6}$ (c) $\frac{2}{5}$ (d) $\frac{3}{8}$

36 Which of the following is true ?

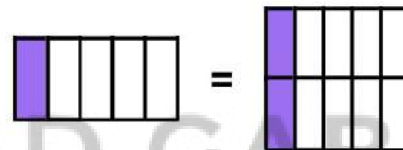
- (a) $\frac{5}{15} = \frac{1}{3}$ (b) $\frac{1}{16} = \frac{3}{18}$ (c) $\frac{7}{8} = \frac{8}{7}$ (d) $\frac{3}{13} = \frac{4}{4}$

37 $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} =$ -----

- (a) $\frac{4}{20}$ (b) $4 \times \frac{1}{5}$ (c) $\frac{11}{5}$ (d) $1 \frac{1}{5}$

38 What is the fraction ?

$\frac{1}{5} = \frac{\square}{\square}$



- (a) $\frac{4}{10}$ (b) $\frac{3}{10}$ (c) $\frac{2}{10}$ (d) $\frac{1}{10}$

39 $\frac{7}{15} >$ -----

- (a) $\frac{3}{4}$ (b) $\frac{5}{8}$ (c) $1 \frac{1}{8}$ (d) $\frac{1}{8}$

40 $\frac{14}{3} = \text{-----}$ as a mixed number.

(a) $4 \frac{1}{3}$

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

(c) $4 \frac{2}{3}$

(d) $2 \frac{2}{3}$

41 Which of the following is the least ?

(a) $\frac{4}{9}$

(b) $\frac{7}{9}$

(c) $\frac{2}{9}$

(d) 1

42 $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \text{-----}$

(a) $\frac{4}{5}$

(b) $3 \times \frac{1}{5}$

(c) $\frac{111}{5}$

(d) $\frac{3}{15}$

43 $\frac{3}{8} = \text{-----}$

(a) $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

(b) $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

(c) $1 + \frac{2}{8}$

(d) $2 + \frac{1}{8}$

44 $\frac{7}{8} = \text{-----}$

(a) $\frac{21}{11}$

(b) $1 \frac{7}{4}$

(c) $\frac{14}{16}$

(d) $\frac{14}{24}$

45 $2 \frac{3}{7} = \text{-----}$ "as an improper fraction."

(a) $\frac{17}{3}$

(b) $\frac{17}{7}$

(c) $\frac{14}{7}$

(d) $\frac{11}{7}$

46 Which fraction is equivalent to $\frac{4}{12}$?

(a) $\frac{8}{20}$

(b) $\frac{2}{9}$

(c) $\frac{1}{4}$

(d) $\frac{3}{9}$

47 $\frac{3}{8} < \text{-----}$

- (a) $\frac{3}{10}$ (b) $\frac{3}{9}$ (c) $\frac{3}{12}$ (d) $\frac{3}{7}$

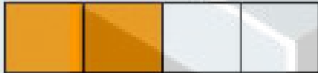

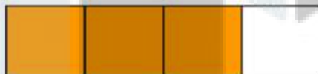

48 Maher ate $\frac{3}{8}$ of his chocolate bar.
The fraction of the left part is

- (a) $\frac{3}{10}$ (b) $\frac{5}{8}$ (c) $\frac{3}{12}$ (d) $\frac{5}{7}$

49 Ahmed has 20 cakes. if $\frac{3}{5}$ of them are covered with chocolate, then the number of chocolate cakes = cakes.

- (a) 10 (b) 13 (c) 12 (d) 17

50 The bar model that represents the fraction of the colored parts of the multiplication sentence $2 \times \frac{1}{5}$ is

- (a)  (c) 
 (b)  (d) 

Q2: Complete the following :-

1 The proper fraction has a numerator than the denominator.

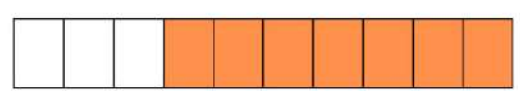
An improper

2 is a fraction greater than or equal to 1.

Mixed number

3 is made up of a whole number and a proper fraction.

4 The shaded parts = $\frac{7}{10}$



5 The number of unit fractions in $\frac{8}{9}$ is 8

6 One whole = 4 fourths

7 Three sevenths = $\frac{1}{7} + \frac{1}{7} + \frac{1}{7}$

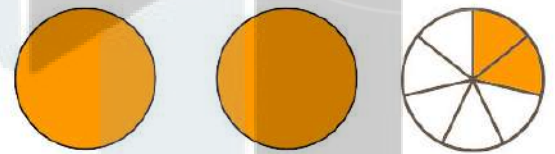
8 $3 \frac{2}{5} + 1 \frac{1}{5} = 4 \frac{3}{5}$

9 $5 \frac{3}{4}$ - $2 \frac{1}{4} = 3 \frac{2}{4}$

10 $4 \frac{4}{5} - 3 \frac{3}{5} = 1 \frac{1}{5}$

11 $1 \frac{6}{7}$ + $1 \frac{1}{7} = 3$

12 The fraction that represents the opposite model is $2 \frac{3}{7}$



13 $\frac{3}{4} \times \frac{2}{2} = \frac{6}{8}$

14 $\frac{4}{7} \times \frac{4}{4} = \frac{16}{28}$

MUHAMMAD GABER
MATHEMATICS TEACHER

15 $\frac{7}{8} > \frac{1}{2}$

16 $\frac{8}{8} = 1$

17 $\frac{4}{7} = \frac{16}{28}$

18 $\frac{2}{3} = \frac{12}{18}$

22 $4 \times \frac{1}{9} = \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$

19 $\frac{5}{6} > \frac{5}{12}$

23 $4 \times \frac{1}{8} = \frac{4}{8}$

20 $\frac{11}{18} < \frac{9}{5}$

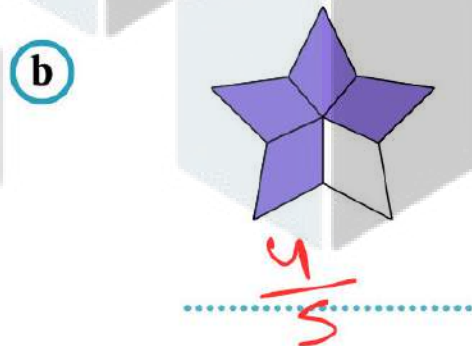
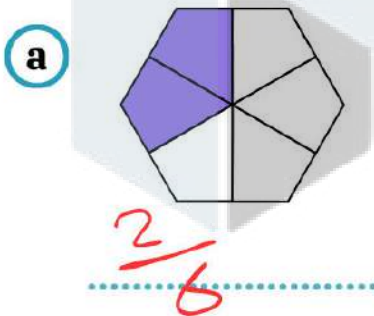
24 $3 \times \frac{2}{9} = \frac{6}{9}$

21 $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 3 \times \frac{1}{4}$

25 $\frac{3}{7} \times 3 = \frac{9}{7}$

Q3: Answer the following :-

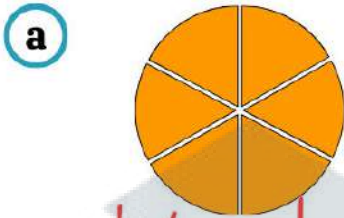
1 What is the fraction of the colored part of each of the following ?



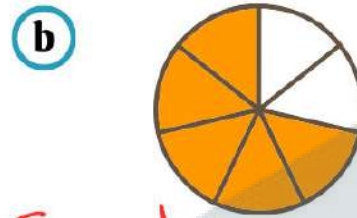
2 Samira cut a cake into 8 equal parts and ate one part of them. what is the fraction that represents the remaining parts ?

$\frac{8}{8} - \frac{1}{8} = \frac{7}{8}$ * you can use models to answer.

3 Write an equation to decompose each of the following into unit fractions.



one whole = $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$



$\frac{5}{7} = \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$

4 Salma went to a market and bought $3 \frac{1}{8}$ kg of banana, and $1 \frac{5}{8}$ kg of apple.

How many kilograms did Salma buy ?

$3 \frac{1}{8} + 1 \frac{5}{8} = (3 + 1) + (\frac{1}{8} + \frac{5}{8})$
 $= 4 + \frac{6}{8} = 4 \frac{6}{8} \text{ kg}$

5 Mona has $24 \frac{1}{2}$ pounds, she bought a doll for $22 \frac{1}{2}$ pounds. How much money left with her ?

$24 \frac{1}{2} - 22 \frac{1}{2} = 2 \text{ Pounds}$

6 Model and record the sum or the difference.

a $2 \frac{1}{4} + 1 \frac{2}{4} = 3 \frac{3}{4}$ Draw yourself

b $3 - 1 \frac{1}{4} = 1 \frac{3}{4}$ Draw yourself

- 7 At basketball practice, Hesham made 14 of his 18 shots. His best friend, Muhammad made 8 of his 16 shots.

Who made a larger fraction of the shots taken ?

$$\frac{14}{18} > \frac{8}{16} \quad \text{So, Hesham made Larger fraction}$$

- 8 Sara and Aya each had identical sandwiches. Sara cut her sandwich into 12 pieces and ate 4 of them. Aya cut hers into 6 pieces and ate 3. Who ate more ? How do you know ?

$$\frac{4}{12} < \frac{3}{6}, \text{ So, Aya ate more}$$

- 9 Use the benchmark fractions 0 , $\frac{1}{2}$, and 1 to order each group of the fractions.

a $\frac{5}{10}$, $\frac{2}{6}$, $\frac{7}{12}$

$$\frac{2}{6}, \frac{5}{10}, \frac{7}{12}$$

Draw yourself

b $\frac{1}{4}$, $\frac{9}{9}$, $\frac{5}{6}$

$$\frac{1}{4}, \frac{5}{6}, \frac{9}{9}$$

Draw yourself

- 10** Kareem has 18 apples. Two thirds of the apples are red.
How many apples are red ?

$$\frac{2}{3} \text{ of } 18 = \frac{2}{3} \times 18 = 12 \text{ apples}$$

- 11** Samy has 15 cakes. if $\frac{2}{5}$ of them are covered with chocolate.
How many cookies were chocolate chip ?

$$\frac{2}{5} \times 15 = 6 \text{ chocolate}$$

- 12** Find the value of X.

a $\frac{9}{12} = \frac{x}{4}$

$$x = 3$$

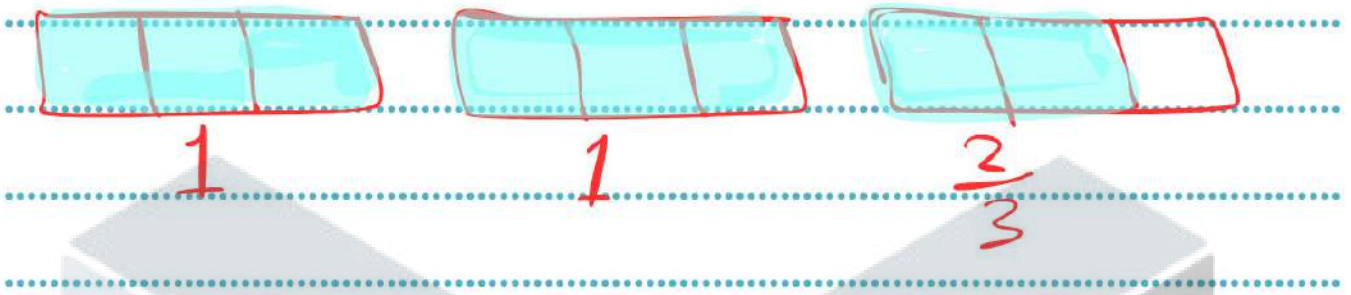
b $\frac{x}{42} = \frac{1}{7}$

$$x = 6$$

- 13** Habiba is making pancake batter. The recipe calls for $\frac{7}{10}$ of a jug of milk, and she only has $\frac{2}{10}$ of a jug of milk.
How much more milk does Habiba need to make the pancake batter ?

$$\frac{7}{10} - \frac{2}{10} = \frac{5}{10} \text{ of a jug of milk}$$

14 Draw a model to represent $2 \frac{2}{3}$



15 Write each mixed number as an improper fraction.

a $3 \frac{3}{4}$

$\frac{15}{4}$

b $6 \frac{4}{5}$

$\frac{34}{5}$

16 Write each improper fraction as a mixed number.

a $\frac{17}{3}$

$5 \frac{2}{3}$

b $\frac{10}{4}$

$2 \frac{1}{2}$

17 Order the following fractions in an ascending order.

$\frac{7}{5}, \frac{4}{10}, \frac{9}{4}, \frac{1}{9}, \frac{5}{7}$

$1 \frac{2}{5}, \frac{2}{5}, 2 \frac{1}{4}, \frac{1}{9}, \frac{5}{7}$ and using the benches

$\frac{1}{9}, \frac{2}{5}, \frac{5}{7}, 1 \frac{2}{5}, 2 \frac{1}{4}$

18 Order the following fractions in an ascending order.

a $\frac{4}{11}, \frac{1}{11}, \frac{9}{11}, \frac{6}{11}$

$\frac{1}{11}, \frac{4}{11}, \frac{6}{11}, \frac{9}{11}$

b $\frac{2}{5}, \frac{2}{9}, \frac{2}{3}, \frac{2}{10}, \frac{2}{4}$

$\frac{2}{10}, \frac{2}{9}, \frac{2}{5}, \frac{2}{4}, \frac{2}{3}$

19 Order the following fractions in a descending order.

a $\frac{1}{7}, \frac{1}{5}, \frac{1}{3}, \frac{1}{4}, \frac{1}{10}$

$\frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{7}, \frac{1}{10}$

b $\frac{2}{11}, \frac{5}{11}, \frac{7}{11}, \frac{4}{11}, \frac{3}{11}$

$\frac{7}{11}, \frac{5}{11}, \frac{4}{11}, \frac{3}{11}, \frac{2}{11}$

20 Each of Ahmed and Ali has a bar of the same size. If Ahmed ate $\frac{4}{8}$ of his bar and Ali ate $\frac{4}{6}$ of his bar. Who ate more?

Ali ate more cause $\frac{4}{6} > \frac{4}{8}$

21 Aya used $3\frac{4}{6}$ kg of meat. Toqa used $2\frac{2}{6}$ kg of meat. What is the total amount of meat did they use altogether?

$3\frac{4}{6} + 2\frac{2}{6} = (3+2) + (\frac{4}{6} + \frac{2}{6})$
 $= 5 + 1 = 6$

- 22 Youssef has 18 apples. Two thirds of the apples are red .
How many apples are red ?

$$\frac{2}{3} \times 18 = 12 \text{ apples}$$

- 23 Use the benchmark fractions 0 , $\frac{1}{2}$, and 1 to order the following fractions from least to greatest.

$$\frac{3}{8}, \frac{7}{9}, \frac{5}{10}$$

$$\frac{3}{8}, \frac{5}{10}, \frac{7}{9}$$

- 24 Arrange the following fractions from the greatest to the least

$$\frac{7}{9}, \frac{4}{9}, \frac{9}{9}, \frac{1}{9}, \frac{5}{9}$$

$$\frac{9}{9}, \frac{7}{9}, \frac{5}{9}, \frac{4}{9}, \frac{1}{9}$$

- 25 Hamza ate $\frac{1}{6}$ from the candy box, so if there were 42 pieces in the box.
How many pieces did Hamza eat ?

$$\frac{1}{6} \times 42 = 7 \text{ pieces}$$

MATHMATICS TEACHER

- 26 The day is 24 hours, how many hours are there in $\frac{2}{3}$ day ?

$$\frac{2}{3} \text{ of } 24 = \frac{2}{3} \times 24 = 16 \text{ hours}$$