
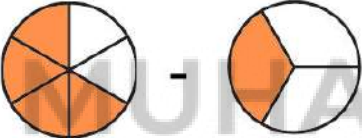


Q1: Choose the correct answer :-

- 1 The L.C.M of the denominators of $\frac{7}{12}$ and $\frac{5}{18}$ is -----
 (a) 12 (b) 36 (c) 18 (d) 6
- 2 The smallest like denominator of $\frac{1}{6}$ and $\frac{4}{5}$ is -----
 (a) 5 (b) 4 (c) 30 (d) 6
- 3 Which of the following is not equivalent to $\frac{15}{20}$?
 (a) $\frac{3}{4}$ (b) $\frac{30}{40}$ (c) $\frac{25}{100}$ (d) $\frac{9}{12}$
- 4 The two like denominator fractions represent the models are -----
 (a) $\frac{3}{4}$, $\frac{1}{3}$ (b) $\frac{6}{8}$, $\frac{2}{8}$ (c) $\frac{8}{12}$, $\frac{4}{12}$ (d) $\frac{9}{12}$, $\frac{4}{12}$
- 5  = -----
 (a) $\frac{2}{3}$ (b) $\frac{3}{4}$ (c) 1 (d) $\frac{5}{6}$
- 6  = -----
 (a) $\frac{3}{6}$ (b) $\frac{1}{2}$ (c) $\frac{1}{3}$ (d) $\frac{5}{6}$
- 7 $4\frac{3}{5} \neq$ -----
 (a) $8\frac{6}{10}$ (b) $4\frac{6}{10}$ (c) $\frac{23}{5}$ (d) $3\frac{8}{5}$

8 $\frac{3}{4} - \frac{3}{5} = \text{-----}$

a $\frac{3}{20}$

b $\frac{1}{20}$

c 0

d $\frac{6}{20}$

9 $\frac{5}{12} + \frac{1}{6} = \text{-----}$

a $\frac{3}{12}$

b $\frac{1}{6}$

c $\frac{7}{12}$

d $\frac{4}{12}$

10 If $b - \frac{5}{7} = \frac{1}{4}$, then $b = \text{-----}$

a $\frac{27}{28}$

b $\frac{13}{28}$

c $\frac{1}{4}$

d $\frac{5}{7}$

11 If $\frac{7}{14} + K = 1$, then $K = \text{-----}$

a $\frac{8}{14}$

b $\frac{5}{14}$

c $\frac{1}{2}$

d $\frac{5}{7}$

12 If $\frac{11}{16} - a = \frac{1}{4}$, then the value of a is -----

a $\frac{8}{16}$

b $\frac{7}{16}$

c $\frac{10}{12}$

d $\frac{6}{6}$

13 If $\frac{4}{7} + \frac{1}{3} = \frac{x}{21} + \frac{7}{21}$, then $x = \text{-----}$

a 3

b 4

c 7

d 12

14 If $3\frac{2}{3} - x = 1$, then $x = \text{-----}$

a 2

b $2\frac{2}{3}$

c $\frac{2}{3}$

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

15 The fraction $2\frac{1}{4}$ by regrouping is -----

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

b $1\frac{5}{4}$

c $\frac{5}{4}$

d $1\frac{2}{4}$

16 $\frac{5}{6} - \frac{3}{5} = \text{-----}$

(a) $\frac{8}{30}$

(b) $\frac{9}{20}$

(c) $\frac{7}{30}$

(d) $\frac{3}{4}$

17 $\frac{1}{4} + \frac{1}{3} = \text{-----}$

(a) $\frac{2}{7}$

(b) $\frac{2}{12}$

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

(d) $\frac{7}{12}$

18 Equivalent fraction of $\frac{2}{8}$ is -----

(a) $\frac{4}{8}$

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

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

(d) $\frac{4}{10}$

19 The smallest like denominator of $\frac{1}{3}$ and $\frac{5}{8}$ is -----

(a) 3

(b) 8

(c) 24

(d) 48

20 $1 - \frac{1}{3} - \frac{1}{5} = \text{-----}$

(a) $\frac{7}{20}$

(b) $\frac{7}{15}$

(c) $\frac{12}{17}$

(d) $\frac{5}{8}$

21  + = -----

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

(b) $\frac{1}{2} + \frac{1}{2}$

(c) $\frac{1}{2} + \frac{1}{3}$

(d) $3 + 2$

22 $\frac{3}{7} - \text{-----} = \frac{1}{7}$

(a) $\frac{4}{7}$

(b) $\frac{2}{7}$

(c) $\frac{1}{7}$

(d) 1

23 $\frac{2}{4}$ is equivalent to -----

(a) $\frac{5}{8} - \frac{1}{4}$

(b) $\frac{7}{8} - \frac{1}{4}$

(c) $\frac{5}{6} - \frac{1}{3}$

(d) $1 - \frac{5}{8}$

24 $5\frac{5}{8} - 3\frac{2}{8} = \text{-----}$

(a) $8\frac{2}{8}$

(b) $2\frac{1}{4}$

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

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

25 $1\frac{2}{5} + 2\frac{3}{5} = \text{-----}$

(a) 5

(b) 6

(c) 4

(d) $3\frac{5}{10}$

26 If $3\frac{4}{7} - x = 2\frac{1}{7}$, then $x = \text{-----}$

(a) 1

(b) $1\frac{3}{7}$

(c) $\frac{3}{7}$

(d) $1\frac{5}{7}$

27 $k - 2\frac{1}{3} = 1\frac{1}{3}$, then $k = \text{-----}$

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

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

(c) $1\frac{2}{3}$

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

28 $\frac{19}{5}$ is equivalent to -----

(a) $3\frac{3}{5}$

(b) $4\frac{1}{5}$

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

(d) $3\frac{4}{5}$

29 $5\frac{1}{4} \text{ -----} = 3\frac{1}{2}$

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

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

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

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

30 $2\frac{1}{3}$ can be regrouped as -----

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

(b) $\frac{3}{7}$

(c) $1\frac{2}{3}$

(d) 7

31 $2\frac{1}{7} + \text{-----} = 5$

(a) $2\frac{6}{7}$

(b) $2\frac{1}{7}$

(c) $\frac{6}{7}$

(d) $1\frac{6}{7}$

32 $2\frac{3}{4} - 1\frac{1}{2} = \text{-----}$

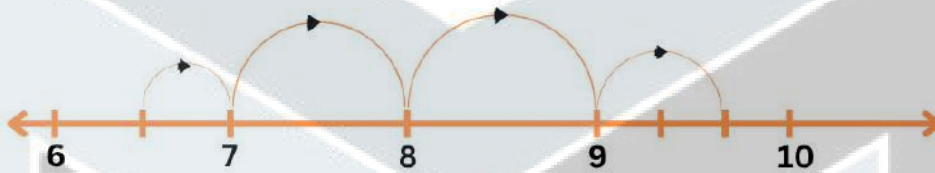
(a) $1\frac{1}{4}$

(b) $1\frac{1}{2}$

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

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

33 The opposite number line represents



(a) $9\frac{2}{3} - 6\frac{1}{2}$

(b) $9\frac{2}{3} + 6\frac{1}{2}$

(c) $2\frac{5}{6} + 6\frac{1}{2}$

(d) $6\frac{1}{2} - 2\frac{5}{6}$

34 $a + 5\frac{5}{6} = 9\frac{1}{12}$, then $a = \text{-----}$

(a) $4\frac{4}{12}$

(b) 4

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

(d) $4\frac{9}{12}$

35 Which of the following is incorrect ?

(a) $3\frac{3}{4} = 2\frac{7}{4}$

(b) $2\frac{5}{8} = \frac{21}{8}$

(c) $1\frac{2}{3} = \frac{5}{3}$

(d) $1\frac{3}{4} - 1\frac{1}{2} = 1\frac{1}{4}$

36 $1 - \text{-----} = \frac{5}{8}$

(a) $\frac{5}{8}$

(b) $\frac{3}{8}$

(c) $\frac{6}{8}$

(d) $\frac{8}{7}$

37 $k + 5\frac{2}{7} = 6\frac{5}{7}$, then $k =$ -----

- (a) $11\frac{7}{7}$ (b) $1\frac{3}{7}$ (c) $4\frac{3}{7}$ (d) $5\frac{1}{7}$

38 $2\frac{1}{4}$ years = ----- months

- (a) 27 (b) 54 (c) 135 (d) 180

39 Two fractions $3\frac{2}{3}$ and $5\frac{1}{6}$ with Like denominators are -----

- (a) $3\frac{2}{3}$ and $5\frac{1}{6}$ (b) $\frac{2}{3}$ and $\frac{1}{6}$ (c) $3\frac{4}{6}$ and $5\frac{1}{6}$ (d) $3\frac{2}{3}$ and $5\frac{2}{6}$

40 $2\frac{3}{5} +$ ----- = $3\frac{1}{4}$

- (a) $1\frac{1}{4}$ (b) $1\frac{4}{5}$ (c) $\frac{13}{20}$ (d) $1\frac{2}{5}$

41 $2\frac{1}{3}$ hours = ----- minutes

- (a) 150 (b) 120 (c) 130 (d) 140

42 $\frac{17}{3}$ is equivalent to -----

- (a) $3\frac{1}{6}$ (b) $7\frac{1}{2}$ (c) $3\frac{2}{5}$ (d) $5\frac{2}{3}$

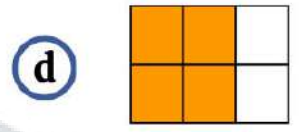
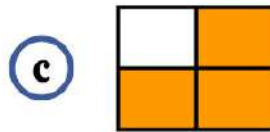
43 $1\frac{5}{8} + 2\frac{7}{12} + \frac{1}{4} =$ -----

- (a) $3\frac{7}{12}$ (b) $4\frac{5}{6}$ (c) $4\frac{7}{12}$ (d) $4\frac{11}{24}$

44 $2\frac{4}{5} + 1\frac{3}{10} - 1\frac{1}{2} =$ -----

- (a) $3\frac{2}{5}$ (b) $2\frac{6}{10}$ (c) $\frac{6}{5}$ (d) $4\frac{11}{24}$

45  is equivalent to -----



46 $\frac{7}{8} - \frac{2}{3} =$ -----

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

(b) $\frac{5}{20}$

(c) $\frac{5}{8}$

(d) $\frac{5}{24}$

47 $\frac{2}{3} + \frac{1}{5} =$ -----

(a) $\frac{3}{8}$

(b) $\frac{13}{15}$

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

(d) $\frac{7}{8}$

Q2: Complete the following :-

1 The L.C.M of the denominators of $\frac{3}{5}$ and $\frac{5}{14}$ is 70

2 The L.C.M of the denominators of $\frac{1}{3}$ and $\frac{5}{12}$ is 12

3 The smallest like denominator of $\frac{2}{3}$ and $\frac{3}{4}$ is 12

4 $\frac{3}{5} + \frac{1}{2} =$ $\frac{11}{10} = 1\frac{1}{10}$

5 $1 -$ $\frac{2}{7}$ $= \frac{5}{7}$

6 If $y + \frac{2}{5} = \frac{3}{5}$, then $y =$ $\frac{1}{5}$



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$$7 \quad 6\frac{2}{3} - 2\frac{1}{6} = 4\frac{1}{2}$$

$$8 \quad 7\frac{7}{20} - 4\frac{3}{4} = 2\frac{3}{5}$$

$$9 \quad 1\frac{7}{14} + 2\frac{5}{7} = 4\frac{3}{14}$$

$$10 \quad 7\frac{3}{8} + 1\frac{7}{8} = 9\frac{1}{4}$$

$$11 \quad \frac{2}{3} \text{ minute} = 40 \text{ seconds}$$

$$12 \quad \frac{1}{6} \text{ day} = 4 \text{ hours}$$

$$13 \quad 2\frac{1}{2} \text{ hours} = 150 \text{ minutes}$$

$$14 \quad 2\frac{1}{2} \text{ years} = 30 \text{ months}$$

$$15 \quad 6\frac{1}{2} \text{ years} = 6 \text{ years and } 6 \text{ months}$$

$$16 \quad 2 \text{ hours and } 15 \text{ minutes} = 135 \text{ minutes}$$

Q3: Answer the following :-

1 Write the following fractions with like denominators: $\frac{2}{3}$ and $\frac{3}{8}$

$$\frac{16}{24} \text{ and } \frac{9}{24}$$

- 2 Rewrite the given mixed numbers with like denominators in two different ways.

$$1\frac{3}{4} \quad \text{and} \quad 1\frac{6}{15}$$

- a) First Rewrite $1\frac{45}{60}$ and $1\frac{24}{60}$
- b) Second Rewrite $1\frac{105}{60}$ and $1\frac{84}{60}$

- 3 Maha took $2\frac{1}{3}$ hours to paint a table and $1\frac{1}{4}$ hours to paint a chair. How much time did she take in all?

$$2\frac{1}{3} + 1\frac{1}{4} = 2\frac{4}{12} + 1\frac{3}{12} = 3\frac{7}{12} \text{ hours}$$

- 4 Marwan studied Math for $2\frac{1}{2}$ hours and Science for 90 minutes. How many hours did Marwan study in all?

$$90 \text{ minutes} = \frac{90}{60} = \frac{3}{2} \text{ hours}$$

$$\text{Total time} = 2\frac{1}{2} + \frac{3}{2} = 4 \text{ hours}$$

- 5 Sameh ate $1\frac{3}{4}$ kg of fruits, Bassem ate $\frac{1}{5}$ kg more than Sameh and Wael ate $\frac{1}{2}$ kg less than Sameh.

How many kg of fruits did the three friends eat together?

$$\text{Bassem ate } 1\frac{3}{4} + \frac{1}{5} = 1\frac{15}{20} + \frac{4}{20} = 1\frac{19}{20} \text{ kg}$$

$$\text{Wael ate } 1\frac{3}{4} - \frac{1}{2} = 1\frac{3}{4} - \frac{2}{4} = 1\frac{1}{4} \text{ kg}$$

$$\text{Together } 1\frac{3}{4} + 1\frac{1}{4} + 1\frac{19}{20} = 4\frac{19}{20} \text{ kg}$$

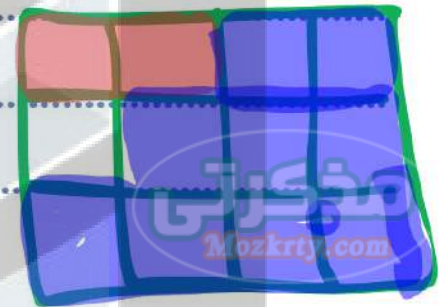
- 6 Adam walked $2\frac{1}{5}$ km and Sameh walked $1\frac{1}{3}$ km more. What distance that Sameh walked ?

$$2\frac{1}{5} + 1\frac{1}{3} = 2\frac{3}{15} + 1\frac{5}{15}$$

$$= 3\frac{8}{15} \text{ km}$$

- 7 Sameh painted $\frac{1}{6}$ of the wall in red and $\frac{3}{4}$ of the same wall in blue. Draw a visual model to represent that and color it, then write the colored fractions of the wall in the same denominator.

L.C.M of 6 and 4
is 12
 $\frac{2}{12}$ and $\frac{9}{12}$



8

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

Draw yourself

$$\frac{3}{8} + \frac{1}{2} = \frac{7}{8}$$

9

$$\frac{1}{2} - \frac{3}{7} =$$

Draw yourself

$$\frac{1}{2} - \frac{3}{7} = \frac{3}{14}$$

- 10 Ahmed bought $\frac{5}{7}$ kilogram of grapes. He used $\frac{2}{3}$ kilogram of grapes to make a juice. How much kilogram are left ?

$$\frac{5}{7} - \frac{2}{3} = \frac{15}{21} - \frac{14}{21} = \frac{1}{21}$$

- 11 Mona has $\frac{1}{2}$ kg of flour. She used $\frac{2}{5}$ kg of it.

What is the rest with her ?

$$\frac{1}{2} - \frac{2}{5} = \frac{5}{10} - \frac{4}{10} = \frac{1}{10} \text{ kg}$$

- 12 Karim walked $\frac{1}{4}$ km and Sameh walked $\frac{1}{3}$ km more,

What distance that Sameh walked ?

The distance that sameh walked is

$$\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12} \text{ km}$$

- 13 Evaluate by rewriting the fractions with like denominators.

a $\frac{3}{4} + \frac{5}{12}$

$$\frac{9}{12} + \frac{5}{12} = \frac{14}{12} = 1\frac{2}{12}$$

b $\frac{6}{7} - \frac{3}{14}$

$$\frac{12}{14} - \frac{3}{14} = \frac{9}{14}$$

14 Evaluate each expression by rewriting the fractions with like denominator.

a $\frac{2}{3} + \frac{5}{7}$

$$\frac{14}{21} + \frac{15}{21} = \frac{29}{21} = 1\frac{8}{21}$$

b $1 - \frac{1}{4} - \frac{2}{3}$

$$\frac{12}{12} - \frac{3}{12} - \frac{8}{12} = \frac{1}{12}$$

15 Find the value of k

a $\frac{3}{4} = \frac{k}{20}$

$$k = 15$$

b $k + \frac{1}{3} = \frac{5}{6}$

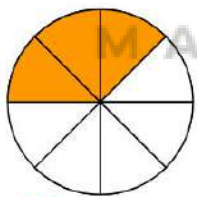
$$k = \frac{5}{6} - \frac{1}{3} = \frac{3}{6}$$

16 karim walked $\frac{1}{5}$ km and Sameh walked $\frac{1}{3}$ km more .

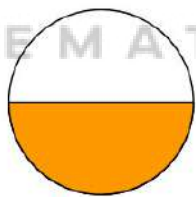
What distance that Sameh walked ?

$$\frac{1}{3} + \frac{1}{5} = \frac{5}{15} + \frac{3}{15} = \frac{8}{15}$$

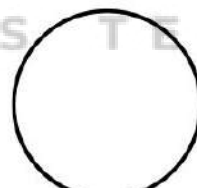
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Draws your self

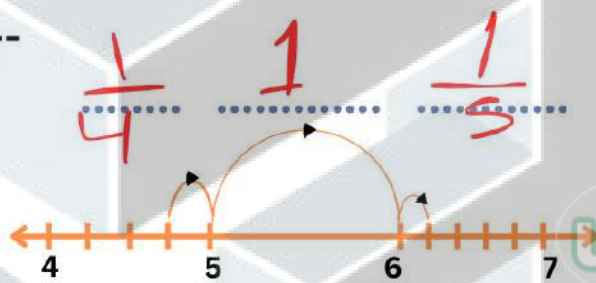
$$\frac{3}{8} + \frac{1}{2} = \frac{7}{8}$$

18 Evaluate each sum or difference. Simplify if possible.

a $1\frac{3}{5} + 3\frac{1}{5} = 4\frac{4}{5}$

b $5\frac{2}{7} - 3\frac{4}{7} = 1\frac{5}{7}$

19 $6\frac{1}{5} - 4\frac{3}{4} = 1\frac{9}{20}$



20 $1\frac{3}{4} - \frac{1}{2} = 1\frac{1}{4}$

-

21 $1\frac{3}{4} + 2\frac{1}{2} = 4\frac{1}{4}$

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Draw yourself

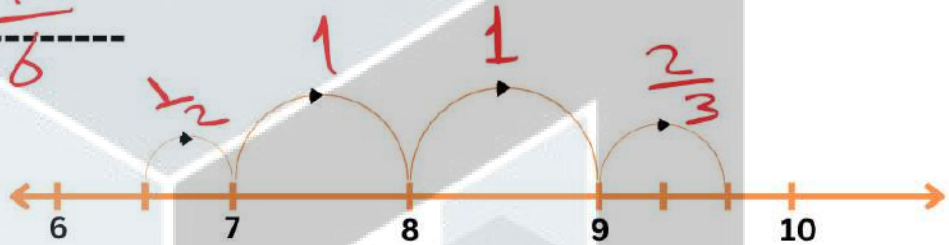
22 $2\frac{3}{5} + 1\frac{1}{2} = \text{-----}$ $4\frac{1}{10}$

Draw Yourself

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23 Use a number line to find the difference.

$9\frac{2}{3} - 6\frac{1}{2} = \text{-----}$ $3\frac{1}{6}$



24 Gina walked $1\frac{1}{2}$ km and Amany walked $2\frac{2}{5}$ km more.
How many km did Amany walk ?

$1\frac{1}{2} + 2\frac{2}{5} = 1\frac{5}{10} + 2\frac{4}{10} = 3\frac{9}{10}$ km

25 Samira has $2\frac{2}{5}$ kg of flour . She used $1\frac{1}{5}$ kg to make sugar cake . Find the remainder amount of flour ?

$2\frac{2}{5} - 1\frac{1}{5} = 1\frac{1}{5}$ kg

(خالص الأمنيات وبدوام التوفيق للجميع)