RS Aggarwal Solutions for Class 6 Maths Chapter 5–Fractions

Class 6 -Chapter 5 Fractions

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Postal Address

IndCareer.com, 52, Shilpa Nagar, Somalwada Nagpur - 440015 Maharashtra, India

WhatsApp: +91 9561 204 888, Website: https://www.indcareer.com



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RS Aggarwal Solutions for Class 6 Maths Chapter 5–Fractions

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Ex 5A Solutions

Question 1.

Solution:

- (i) 34
- (ii) 14
- (iii) 23
- (iv) 310
- (v) 49

(vi) 38

Question 2.

Solution:

In the figure, 49 is shaded



	1000

Question 3.

Solution:

In the figure, whole rectangle is not divided into four equal parts.

Question 4.

Solution:

- (i) Three-fourths = 34
- (ii) Four-sevenths = 47
- (iii) Two-fifths = 25
- (iv) Three-tenths = 310
- (v) One-eighth = 18
- (vi) three-tenths = 56
- (vii) five-sixths = 89
- (vii) seven-twelfths = 712

Question 5.

Solution:

- (i) In 49, numerator is 4 and denominator is 9.
- (ii) In 611, numerator is 6 and denominator is 11.
- (iii) In 815, numerator is 8 and denominator is 15.



- (iv) In 1217, numerator is 12 and denominator is 17.
- (v) 51 , numerator is 5 and denominator is 1.

Question 6.

Solution:

- (z) Numerator = 3, Denominator = 8, then fraction = 38.
- (ii) Numerator = 5, Denominator = 12, then fraction = 512
- (iii) Numerator = 7, Denominator = 16, then fraction = 716.
- (iv) Numerator = 8, Denominator = 15, then fraction = 815

Question 7.

Solution:

- (i) 23 = two-thirds
- (ii) 49 = four-ninths
- (iii) 25 = two-fifths
- (iv) 710 = seven-tenths
- (v) 13 = one-thirds
- (vi) 34 = three-fourth
- (vii) 38 = three-eighths
- (viii) 914 = nine-fourteenths
- (ix) 511 = five-elevanths
- (x) 615 = six-fifteenths

Question 8.



Solution:

24 minutes is the fraction of 1 hour i.e.,

60 minutes = 2460

Question 9.

Solution:

Natural number between 2 to 10 are 2, 3, 4, 5, 6, 7, 8, 9, 10 = 9

Out of these prime number are 2, 3, 5, 7 = 4

Fraction = 49

Question 10.

Solution:

(i) 23 of 15 pens = 23 x 15 = 2 x 5 = 10 pens.

(ii) 23 of 27 balls = 23 x 27 = 2 x 9 = 18 balls.

(iii) 23 of 36 balloons = $23 \times 36 = 2 \times 12 = 24$ balloons. Ans.

Question 11.

Solution:

(i) 34 of 16 cups = 34 x 16 = 3 x 4

= 12 cups.

- (ii) 34 of 28 rackets = 34 x 28 = 3 x 7
- = 21 rackets.
- (iii) 34 of 32 books = 34 x 32 = 3 x 8
- = 24 books. Ans.



Question 12.

Solution:

Total number of pencils Neelam has = 25

No. of pencils given to Meena

= 45 of 25

= 45 x 25 – 20

No. of pencils left with Neelam = 25 - 20 = 5

Question 13.

Solution:

(i) 38

Take a line segment OA = one unit of length

Divide it into 8 equal parts and take 3 parts at P, then P represents 38.



(ii) 59

(a) Take a line segment OA = one unit of length.

(b) Divide it into nine equal parts and take 5 parts at P, then P represents 59.



(iii) 47

(a) Take a line segment OA = one unit of length.



(b) Divide it into 7 equal parts and take 4 parts at P then P represents 47.



(iv) 25

(a) Take a line segment OA = 1 unit of length.

(b) Divide it with 5 equal parts and take 2 parts and P then P represents 25.



(v) 14

(a) Take a line segment OA = 1 unit of length.

(b) Divide it with 4 equal parts and take 1 parts and P then P represents 14.



Ex 5B Solutions

Question 1.

Solution:

We know that, a fraction is proper if its denominator is greater than its numerator. Therefore,

12, 35 and 1011 are proper fractions. Ans.

Question 2.

Solution:



We know that a fraction is improper if its denominator is less than its numerator

Therefore,

$$\frac{3}{2}, \frac{9}{4}, \frac{8}{8}, \frac{3}{1}, \frac{27}{16}, \frac{19}{18}, \frac{26}{26}$$

are improper fractions. Ans.

Question 3.

Solution:

Six improper fractions with denominator 5 can be

6	7	8	9	10	11	
5'	5'	5'	5'	5'	5	

Question 4.

Solution:

Six improper fraction with denominator 13 can be

14	15	16	17	18	19	
13'	13'	13'	13'	13'	13	

Question 5.

Solution:



(i)
$$5\frac{5}{7} = \frac{5 \times 7 + 5}{7} = \frac{35 + 5}{7} = \frac{40}{7}$$
.
(ii) $9\frac{3}{8} = \frac{9 \times 8 + 3}{8} = \frac{72 + 3}{8} = \frac{75}{8}$.
(iii) $6\frac{3}{10} = \frac{6 \times 10 + 3}{10} = \frac{60 + 3}{10} = \frac{63}{10}$.
(iv) $3\frac{5}{11} = \frac{3 \times 11 + 5}{11} = \frac{33 + 5}{11} = \frac{38}{11}$.
(v) $10\frac{9}{14} = \frac{10 \times 14 + 9}{14} = \frac{140 + 9}{14} = \frac{149}{14}$.
(vi) $12\frac{7}{15} = \frac{12 \times 15 + 7}{15} = \frac{180 + 7}{15} = \frac{187}{15}$.
(vii) $8\frac{8}{13} = \frac{8 \times 13 + 8}{13} = \frac{104 + 8}{13} = \frac{112}{13}$.
(viii) $51\frac{2}{3} = \frac{51 \times 3 + 2}{3} = \frac{153 + 2}{3} = \frac{155}{3}$.

Question 6.

Solution:



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$$(i) \frac{17}{5} = 3 + \frac{2}{5} = 3\frac{2}{5}.$$

$$(ii) \frac{62}{7} = 8 + \frac{6}{7} = 8\frac{6}{7}.$$

$$7) \frac{62}{6}(8)$$

$$(iii) \frac{101}{8} = 12 + \frac{5}{8} = 12\frac{5}{8}.$$

$$8) \frac{101}{101}(12)$$

$$\frac{8}{21}$$

$$(iv) \frac{95}{13} = 7 + \frac{4}{13} = 7\frac{4}{13}.$$

$$12) \frac{103}{103}(8)$$

$$(viii) \frac{117}{20} = 5 + \frac{17}{20} = 5\frac{17}{20}.$$

$$20) \frac{117}{17}(5)$$

$$13 \overline{\smash{\big)} \frac{95}{91}} (7)$$

$$(v) \frac{81}{11} = 7 + \frac{4}{11} = 7 + \frac$$

Question 7.

Solution:





Question 8.

Solution:





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Ex 5C Solutions

Question 1.

Solution:

(i) 23

= 2X23X2

= 46



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 $=\frac{2\times3}{3\times3}=\frac{6}{9}=\frac{2\times4}{3\times4}=\frac{8}{12}$ $=\frac{2\times5}{3\times5}=\frac{10}{15}=\frac{2\times6}{3\times6}=\frac{12}{18}$ (. $\therefore \frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15} = \frac{12}{18}.$ (*ii*) $\frac{4}{5} = \frac{4 \times 2}{5 \times 2} = \frac{8}{10}$ $=\frac{4\times3}{5\times3}=\frac{12}{15}=\frac{4\times4}{5\times4}=\frac{16}{20}$ $=\frac{4\times5}{5\times5}=\frac{20}{25}=\frac{4\times6}{5\times6}=\frac{24}{20}$ $\therefore \frac{4}{5} = \frac{8}{10} = \frac{12}{15} = \frac{16}{20} = \frac{20}{25} = \frac{24}{30}$ (*iii*) $\frac{5}{8} = \frac{5 \times 2}{8 \times 2} = \frac{10}{16}$ $=\frac{5\times3}{8\times3}=\frac{15}{24}=\frac{5\times4}{8\times4}=\frac{20}{32}$ $=\frac{5\times5}{8\times5}=\frac{25}{40}=\frac{5\times6}{8\times6}=\frac{30}{48}$ $=\frac{5\times3}{12\times3}=\frac{15}{36}=\frac{5\times4}{12\times4}=\frac{20}{48}$ $=\frac{5\times5}{12\times5}=\frac{25}{60}=\frac{5\times6}{12\times6}=\frac{30}{72}$ $\therefore \qquad \frac{5}{12} = \frac{10}{24} = \frac{15}{36} = \frac{20}{48} = \frac{25}{60} = \frac{30}{72}.$

$$\therefore \frac{5}{8} = \frac{10}{16} = \frac{15}{24} = \frac{20}{32} = \frac{25}{40} = \frac{30}{48}.$$

iv) $\frac{7}{10} = \frac{7 \times 2}{10 \times 2} = \frac{14}{20}$
 $= \frac{7 \times 3}{10 \times 3} = \frac{21}{30} = \frac{7 \times 4}{10 \times 4} = \frac{28}{40}$
 $= \frac{7 \times 5}{10 \times 5} = \frac{35}{50} = \frac{7 \times 6}{10 \times 6} = \frac{42}{60}$
 $\therefore \frac{7}{10} = \frac{14}{20} = \frac{21}{30} = \frac{28}{40} = \frac{35}{50} = \frac{42}{60}.$
(v) $\frac{3}{7} = \frac{3 \times 2}{7 \times 2} = \frac{6}{14}$
 $= \frac{3 \times 3}{7 \times 3} = \frac{9}{21} = \frac{3 \times 4}{7 \times 4} = \frac{12}{28}$
 $= \frac{3 \times 5}{7 \times 5} = \frac{15}{35} = \frac{3 \times 6}{7 \times 6} = \frac{18}{42}$
 $\therefore \frac{3}{7} = \frac{6}{14} = \frac{9}{21} = \frac{12}{28} = \frac{15}{35} = \frac{18}{42}.$

Question 2.

Solution:

(i) In 56 and 2024



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56 = 2024



if $5 \times 24 = 20 \times 6$ if 120 = 120which is true. $\therefore \frac{5}{6}$ and $\frac{20}{24}$ is a pair of equivalent fraction. (*ii*) In $\frac{3}{8}$ and $\frac{15}{40}$ $\frac{3}{8} = \frac{15}{40}$ if $3 \times 40 = 15 \times 8$ if 120 = 120which is true. $\therefore \frac{3}{8}$ and $\frac{15}{40}$ is a pair of equivalent

fractions.

(*iii*)
$$\frac{4}{7}$$
 and $\frac{16}{21}$



 $\frac{4}{7} = \frac{16}{21}$ if $4 \times 21 = 16 \times 7$ if 84 = 112which is not true.

 $\therefore \frac{4}{7}$ and $\frac{16}{21}$ is not a pair of equivalent fractions.

(*iv*) $\frac{2}{9}$ and $\frac{14}{63}$ $\frac{2}{9} = \frac{14}{63}$ if $2 \times 63 = 14 \times 9$ if 126 = 126which is true.

 $\therefore \frac{2}{9}$ and $\frac{14}{63}$ is a pair of equivalent fractions.



(v)
$$\frac{1}{3}$$
 and $\frac{9}{24}$
 $\frac{1}{3} = \frac{9}{24}$
if $1 \times 24 = 9 \times 3$
if $24 = 27$
which is not true.

 $\therefore \frac{1}{3}$ and $\frac{9}{24}$ is not a pair of equivalent fractions.

(vi)
$$\frac{2}{3}$$
 and $\frac{33}{22}$
 $\frac{2}{3} = \frac{33}{22}$
if $2 \times 22 = 33 \times 3$
if $44 = 99$

which is not true.

 $\therefore \frac{2}{3}$ and $\frac{33}{22}$ is not a pair of equivalent fractions. Ans.

Question 3.

Solution:

Equivalent fraction of 35 having

(i) Denominator = 30 and $30 = 5 \times 6$



$$\therefore \frac{3}{5} = \frac{3 \times 6}{5 \times 6} = \frac{18}{30}$$
(ii) Numerator = 24 and 24 = 3 × 8

$$\therefore \frac{3}{5} = \frac{3 \times 8}{5 \times 8} = \frac{24}{40}$$

Question 4.

Solution:

(i) Denominator = 54, and $54 = 9 \times 6$

$$\therefore \frac{5}{9} = \frac{5 \times 6}{9 \times 6} = \frac{30}{54}$$
(ii) Let $\frac{5}{9} = \frac{35}{7}$

Now, we have to find x

To get 35, we have to multiply 5 by 7,

then
$$\frac{5 \times 7}{9 \times 7} = \frac{35}{x} \implies \frac{35}{63} = \frac{35}{x}$$

 $\therefore \qquad x = 63$
 $\therefore \qquad \text{Fraction} = \frac{35}{63} \quad \text{Ans.}$

Question 5.

Solution:

Equivalent fraction of 611 having

(i) Denominator = 77 and 77 = 11 = 7

611

= 6X711X7



= 4277

611

= 6X1011X10

= 60110

Question 6.

Solution:

Let 2430 = 4x

In order to get 4, divide 24 by 6,

then
$$\frac{24 \div 6}{30 \div 6} = \frac{4}{x} \implies \frac{4}{5} = \frac{4}{x}$$

 $\therefore \qquad x = 5$
 $\therefore \qquad \text{Fraction} = \frac{4}{5}$. Ans.

Question 7.

Solution:

Equivalent fraction of 3648, with

(i) Numerator 9 and 9 = 36 + 4

- 3648=36÷448÷4=912
- (ii) Denominator = 4 and 4 = $48 \div 12$

3648=36÷1248÷12=34

Question 8.



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Solution:

Equivalent fraction of 5670 with

(i) Numerator 4 and = $56 \div 14$

5670=56÷1470÷14=45

(ii) Denominator =10 and $10 = 70 \div 7$

5670=56÷770÷7=810

Question 9.

Solution:

(i) In 915, HCF of 9 and 15 = 3

Now, dividing each term by 3, we get:

915=9÷315÷3=35



 $\therefore \ \frac{48}{60} = \frac{48 \div 12}{60 \div 12} = \frac{4}{5}$ Working : $9\overline{\big)} \begin{array}{c} 15 \\ 9 \end{array} (1)$ (iii) $\frac{84}{98}$ 6) 9 (1 6 HCF of 84 and 98 = 143) 6 (2 84)98(1 84 14)84(6 × (ii) $\frac{48}{60}$ 84 × HCF of 48 and 60 = 12 $\therefore \ \frac{84}{98} = \frac{84 \div 14}{98 \div 14} = \frac{6}{7}$ 48)60(1 48 12)48(4 (iv) $\frac{150}{60}$ 48 × HCF of 150 and 60 = 30





Question 10.

Solution:

We know that a fraction is in its simplest form if its HCF of numerator and denominator is 1.



(i)
$$\frac{8}{11}$$
 \because HCF of 8 and 11 = 1
 $\therefore \frac{8}{11}$ is in the simplest form.
(ii) $\frac{9}{14}$ \because HCF of 9 and 14 = 1
 $\therefore \frac{9}{14}$ is in the simplest form.
(iii) $\frac{25}{36}$ \therefore HCF of 25 and 36 = 1
 $\therefore \frac{25}{36}$ is in the simplest form.
(iv) $\frac{8}{15}$ (v) $\frac{21}{10}$
 \therefore HCF of 8 and 15 = 1 \therefore HCF of 21 and 10 = 1
 $\therefore \frac{8}{15}$ is in it simplest form $\therefore \frac{21}{10}$ is in its simplest form

Question 11.

Solution:



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(i)
$$\frac{2}{7} = \frac{8}{\Box} = \frac{2 \times 4}{7 \times 4}$$
 (: $8 = 2 \times 4$)
 $= \frac{8}{28}$
(ii) $\frac{3}{5} = \frac{\Box}{35} = \frac{3 \times 7}{5 \times 7}$ (: $35 = 5 \times 7$)
 $= \frac{21}{35}$
(iii) $\frac{5}{8} = \frac{20}{\Box} = \frac{5 \times 4}{8 \times 4}$ (: $20 = 5 \times 4$)
 $= \frac{20}{32}$
(iv) $\frac{45}{60} = \frac{9}{\Box} = \frac{45 \div 5}{60 \div 5}$ (: $9 = 45 \div 5$)



$$= \frac{9}{12}$$
(v) $\frac{40}{56} = \frac{1}{7} = \frac{40 \div 8}{56 \div 8}$ ($\because 56 \div 7 = 8$)

$$= \frac{5}{7}$$
(vi) $\frac{42}{54} = \frac{7}{1} = \frac{42 \div 6}{54 \div 6}$ ($\because 7 = 42 \div 6$)

$$= \frac{7}{9}$$

Ex 5D Solutions

Question 1.

Solution:

(i) Like fraction : Fractions having the same denominators are called like fractions. For examples:

211,311,411,511,811

(ii) Unlike fraction : Fraction having the different denominators, are called unlike fractions. For examples:

13,47,59,38,711

Question 2.

Solution:

We know that like fractions have same denominator

Now 35,710,815,1130



LCM of 5, 10, 15 and 30 = 30

$$\therefore \frac{3}{5} = \frac{3 \times 6}{5 \times 6} = \frac{18}{30}$$

$$\frac{7}{10} = \frac{7 \times 3}{10 \times 3} = \frac{21}{30}$$

$$\frac{8}{15} = \frac{8 \times 2}{15 \times 2} = \frac{16}{30} \text{ and } \frac{11}{30}$$

$$\therefore \frac{18}{30}, \frac{21}{30}, \frac{16}{30}, \frac{11}{30} \text{ are like fractions}$$

Question 3.

Solution:

We know that like fraction have same denominators

14,58,712,1324

LCM of 4, 8, 12, 24 = 24

$$\therefore \frac{1}{4} = \frac{1 \times 6}{4 \times 6} = \frac{6}{24}$$

$$\frac{5}{8} = \frac{5 \times 3}{8 \times 3} = \frac{15}{24}$$

$$\frac{7}{12} = \frac{7 \times 2}{12 \times 2} = \frac{14}{24} \text{ and } \frac{13}{24}$$

$$\therefore \frac{6}{24}, \frac{15}{24}, \frac{14}{24}, \frac{13}{24} \text{ are like fractions}$$



Question 4.

Solution:

(*i*)
$$\frac{8}{9}$$
 \square $\frac{5}{9} = \frac{8}{9} > \frac{5}{9}$

Because denominators are same and 8 > 5.

$$(ii) \ \frac{9}{10} \ \square \ \frac{7}{10} = \frac{9}{10} > \frac{7}{10}$$

Because denominators are same and 9 > 7.

(*iii*)
$$\frac{3}{7} \square \frac{6}{7} = \frac{3}{7} < \frac{6}{7}$$

Because denominators are same and 3 < 6.

$$(iv) \ \frac{11}{15} \ \square \ \frac{8}{15} = \frac{11}{15} > \frac{8}{15}$$

Because denominators are same and 11 > 8.

$$(v) \frac{6}{11} \square \frac{5}{11} = \frac{6}{11} > \frac{5}{11}$$

Because denominators are same and 6 > 5.

$$(vi) \ \frac{11}{20} \ \square \ \frac{17}{20} = \frac{11}{20} < \frac{17}{20}$$

Because denominators are same and 11 < 17. Ans.

Question 5.

Solution:



(i)
$$\frac{3}{4} \square \frac{3}{5} = \frac{3}{4} > \frac{3}{5}$$

Because numerator are same and 4 < 5.

(*ii*)
$$\frac{7}{8} \square \frac{7}{10} = \frac{7}{8} > \frac{7}{10}$$

Because numerators are same and 8 < 10.

(*iii*)
$$\frac{4}{11} \square \frac{4}{9} = \frac{4}{11} < \frac{4}{9}$$

Because numerators are same and 11 > 9.

$$(iv) \ \frac{8}{11} \ \square \ \frac{8}{13} = \frac{8}{11} > \frac{8}{13}$$

Because numerators are same and 11 < 13.

$$(v) \ \frac{5}{12} \ \square \ \frac{5}{8} = \frac{5}{12} < \frac{5}{8}$$

Because numerators are same and 12 > 8.

$$(vi) \ \frac{11}{14} \ \square \ \frac{11}{15} = \frac{11}{14} > \frac{11}{15}$$

Because numerators are same and 14 < 15. Ans.

Compare the fractions given below :

Question 6.

Solution:

45and57



LCM of 5 and 7 = 35

 $\therefore \qquad \frac{4}{5} = \frac{4 \times 7}{5 \times 7} = \frac{28}{35}$ and $\frac{5}{7} = \frac{5 \times 5}{7 \times 5} = \frac{25}{35}$ It is clear that $\frac{28}{35} > \frac{25}{35}$ $\therefore \qquad \frac{4}{5} > \frac{5}{7}.$ Ans.

Question 7.

Solution:

38and56

LCM of 8 and 6 = 24

÷	- = -	$\frac{3\times3}{3\times3} =$	9 24	
and	$\frac{5}{6} = \frac{5}{6}$	$\frac{5 \times 4}{6 \times 4} =$	$\frac{20}{24}$	54.
It is cle	ear that	$t \frac{9}{24} <$	20 24	1
<i>.</i> .		$\frac{3}{8} <$	$\frac{5}{6}$	Ans.

Question 8.

Solution:

711and67

LCM of 11 and 7 = 77



÷	$\frac{7}{11} = \frac{7 \times 7}{11 \times 7}$	$=\frac{49}{77}$
and	$\frac{6}{7} = \frac{6 \times 11}{7 \times 11}$	$=\frac{66}{77}$
It is	clear that $\frac{49}{77} < \frac{49}{77}$	66 77
÷	$\frac{7}{11} < \frac{6}{7}$.	

Question 9.

Solution:

56 and 911

LCM of 6 and 11 = 66

 $\therefore \qquad \frac{5}{6} = \frac{5 \times 11}{6 \times 11} = \frac{55}{66}$ and $\frac{9}{11} = \frac{9 \times 6}{11 \times 6} = \frac{54}{66}$ It is clear that $\frac{55}{66} > \frac{54}{66}$ $\therefore \qquad \frac{5}{6} > \frac{9}{11}$. Ans.

Question 10.

Solution:

23and49

LCM of 3 and 9 = 9



 $\therefore \qquad \frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{6}{9} \text{ and } \frac{4}{9}$ It is clear that $\frac{6}{9} > \frac{4}{9}$ $\therefore \qquad \frac{2}{3} > \frac{4}{9} \quad \text{Ans.}$

Question 11.

Solution:

613and34

LCM of 13 and 4 = 52

	6	6×4	1_2	24
	13	13 × -	4 3	52
and	3_	3×13	3 _ 3	39
anu	4	4×13	3 5	52
It is cl	ear tha	$t \frac{24}{52}$	$<\frac{39}{52}$	
÷	$\frac{6}{13} <$	$\frac{3}{4}$	Ans.	

Question 12.

Solution:

34and56

LCM of 4 and 6 = 12



 $\therefore \qquad \frac{3}{4} = \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$ and $\frac{5}{6} = \frac{5 \times 2}{6 \times 2} = \frac{10}{12}$ It is clear that $\frac{9}{12} < \frac{10}{12}$ $\therefore \qquad \frac{3}{4} < \frac{5}{6}$ Ans.

Question 13.

Solution:

58and712

LCM of 8 and 12 = 24

.:.	$\frac{5}{8} =$	$\frac{5 \times 3}{8 \times 3}$	$=\frac{1}{2^{4}}$	
and	$\frac{7}{12} =$	$=\frac{7\times}{12\times}$		14 24
It is cl	ear tha	$\frac{15}{24}$	$>\frac{14}{24}$	1
÷	$\frac{5}{8} >$	$\frac{7}{12}$	Ans	5.

Question 14.

Solution:

49and56

LCM of 9 and 6 = 18



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$$\therefore \frac{4}{9} = \frac{4 \times 2}{9 \times 2} = \frac{8}{18} \text{ and } \frac{5}{6} = \frac{5 \times 3}{6 \times 3} = \frac{15}{18}$$

It is clear that $\frac{8}{18} < \frac{15}{18}$
$$\therefore \quad \frac{4}{9} < \frac{5}{6} \quad \text{Ans.}$$

Question 15.

Solution:

45and710

LCM of 5 and 10 = 10

$$\therefore \qquad \frac{4}{5} = \frac{4 \times 2}{5 \times 2} = \frac{8}{10} \text{ and } \frac{7}{10}$$

It is clear that $\frac{8}{10} > \frac{7}{10}$
$$\therefore \qquad \frac{4}{5} > \frac{7}{10} \text{ Ans.}$$

Question 16.

Solution:

78and910

LCM of 8 and 10 = 40



÷	$\frac{7}{8} =$	$\frac{7 \times 3}{8 \times 3}$	- = -	10
and	$\frac{9}{10} =$	<u>9 ×</u> 10 ×	$\frac{4}{\times 4} =$	$\frac{36}{40}$
It is cle	ear tha	at $\frac{35}{40}$	$<\frac{3}{4}$	$\frac{6}{0}$
	$\frac{7}{8} <$	<u>9</u> 10	Ans	

Question 17.

Solution:

1112and1315

LCM of 12 and 15 = 60

.:.	$\frac{11}{12}$ =	$\frac{11 \times 5}{12 \times 5}$	
and	$\frac{13}{15} =$	$\frac{13 \times 4}{15 \times 4}$	$=\frac{52}{60}$
It is cle	ear tha	$t \frac{55}{60} >$	$\frac{52}{60}$
÷	$\frac{11}{12}$ >	$\frac{13}{15}$	Ans.

Question 18.

Solution:

12,34,56and78

LCM of 2, 4, 6 and 8 = 24



 $\therefore \qquad \frac{1}{2} = \frac{1 \times 12}{2 \times 12} = \frac{12}{24},$ $\frac{3}{4} = \frac{3 \times 6}{4 \times 6} = \frac{18}{24},$ $\frac{5}{6} = \frac{5 \times 4}{6 \times 4} = \frac{20}{24}$ and $\frac{7}{8} = \frac{7 \times 3}{8 \times 3} = \frac{21}{24}$

It is clear from above that

	$\frac{12}{24} < \frac{18}{24} < \frac{20}{24} < \frac{21}{24}$
.	$\frac{1}{2} < \frac{3}{4} < \frac{5}{6} < \frac{7}{8}$
or	$\frac{1}{2}, \frac{3}{4}, \frac{5}{6}, \frac{7}{8}$

are in ascending order. Ans.

Question 19.

Solution:

23,56,79and1118

LCM of 3, 6, 9 and 18 = 18



 $\therefore \quad \frac{2}{3} = \frac{2 \times 6}{3 \times 6} = \frac{12}{18},$ $\frac{5}{6} = \frac{5 \times 3}{6 \times 3} = \frac{15}{18}$ $\frac{7}{9} = \frac{7 \times 2}{9 \times 2} = \frac{14}{18} \text{ and } \frac{11}{18}$ It is clear from above that $\frac{11}{18} < \frac{12}{18} < \frac{14}{18} < \frac{15}{18}$ $\therefore \quad \frac{11}{18} < \frac{2}{3} < \frac{7}{9} < \frac{5}{6}$ or $\frac{11}{18}, \frac{2}{3}, \frac{7}{9}, \frac{5}{6}$

are in ascending order. Ans.

Question 20.

Solution:

25,710,1115and1730

LCM of 5, 10, 15 and 30 = 30


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 $\therefore \qquad \frac{2}{5} = \frac{2 \times 6}{5 \times 6} = \frac{12}{30},$ $\frac{7}{10} = \frac{7 \times 3}{10 \times 3} = \frac{21}{30}$ $\frac{11}{15} = \frac{11 \times 2}{15 \times 2} = \frac{22}{30}$ and $\frac{17}{30}$

It is clear from above that

	$\frac{12}{30}$	$<\frac{17}{30}$	$<\frac{21}{30}$	$<\frac{22}{30}$
or	$\frac{2}{5} <$	$\frac{17}{30} <$	$\frac{7}{10} <$	$\frac{11}{15}$
or		$\frac{17}{30}, \frac{7}{10}$		

are in ascending order. Ans.

Question 21.

Solution:

34,78,1116and2332

LCM of 4, 8, 16 and 32 = 32



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 $\therefore \qquad \frac{3}{4} = \frac{3 \times 8}{4 \times 8} = \frac{24}{32}, \\ \frac{7}{8} = \frac{7 \times 4}{8 \times 4} = \frac{28}{32} \\ \frac{17}{16} = \frac{11 \times 2}{16 \times 2} = \frac{22}{32} \\ \text{and} \qquad \frac{23}{32}$

It is clear from above that

 $\frac{22}{32} < \frac{23}{32} < \frac{24}{32} < \frac{28}{32}$ or $\frac{11}{16} < \frac{23}{32} < \frac{3}{4} < \frac{7}{8}$ Hence $\frac{11}{16}, \frac{23}{32}, \frac{3}{4} \text{ and } \frac{7}{8} \text{ are in ascending order. Ans.}$

Arrange the following fractions in the descending order :

Question 22.

Solution:

34,58,1112and1724

LCM of 4, 8, 12 and 24 = 24



 $\therefore \qquad \frac{3}{4} = \frac{3 \times 6}{4 \times 6} = \frac{18}{24},$ $\frac{5}{8} = \frac{5 \times 3}{8 \times 3} = \frac{15}{24}$ $\frac{11}{12} = \frac{11 \times 2}{12 \times 2} = \frac{22}{24}$ and $\frac{17}{24}$

It is clear from above that

 $\frac{22}{24} > \frac{18}{24} > \frac{17}{24} > \frac{15}{24} \text{ or } \frac{11}{12} > \frac{3}{4} > \frac{17}{24} > \frac{5}{8}$ Hence $\frac{11}{12}, \frac{3}{4}, \frac{17}{24} \text{ and } \frac{5}{8}$ are in descending order. **Ans.**

Question 23.

Solution:

79,512,1118and1736

LCM of 9, 12, 18 and 36 = 36



 $\therefore \qquad \frac{7}{9} = \frac{7 \times 4}{9 \times 4} = \frac{28}{36},$ $\frac{5 \times 3}{12 \times 3} = \frac{15}{36}$ $\frac{11}{18} = \frac{11 \times 2}{18 \times 2} = \frac{22}{36}$ and $\qquad \frac{17}{36}$ It is clear from the above that $\frac{28}{36} > \frac{22}{36} > \frac{17}{36} > \frac{15}{36} \text{ or } \frac{7}{9} > \frac{11}{18} > \frac{17}{36} > \frac{5}{12}$

36 36 36 36 36 9 18 36 12 Hence $\frac{7}{9}, \frac{11}{18}, \frac{17}{36} \text{ and } \frac{5}{12}$ are in descending order. Ans.

Question 24.

Solution:

23,35,710and815

LCM of 3, 5, 10 and 15 = 30



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- $\therefore \qquad \frac{2}{3} = \frac{2 \times 10}{3 \times 10} = \frac{20}{30},$ $\frac{3}{5} = \frac{3 \times 6}{5 \times 6} = \frac{18}{30}$ $\frac{7}{10} = \frac{7 \times 3}{10 \times 3} = \frac{21}{30},$ $\frac{8}{15} = \frac{8 \times 2}{15 \times 2} = \frac{16}{30}$

It is clear from the above that

 $\frac{21}{30} > \frac{20}{30} > \frac{18}{30} > \frac{16}{30}$ or $\frac{7}{10} > \frac{2}{3} > \frac{3}{5} > \frac{8}{15}$ Hence $\frac{7}{10}, \frac{2}{3}, \frac{3}{5}$ and $\frac{8}{15}$ are in descending order. Ans.

Question 25.

Solution:

57,914,1721and3142

LCM of 7, 14, 21 and 42 = 42



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 $\frac{5}{7} = \frac{5 \times 6}{7 \times 6} = \frac{30}{42},$ $\frac{9}{14} = \frac{9 \times 3}{14 \times 3} = \frac{27}{42}$ $\frac{17}{21} = \frac{17 \times 2}{21 \times 2} = \frac{34}{42}$ and $\frac{31}{42}$ It is clear from the above that $\frac{34}{42} > \frac{31}{42} > \frac{30}{42} > \frac{27}{42} \text{ or}$ $\frac{17}{21} > \frac{31}{42} > \frac{5}{7} > \frac{9}{14}$ Hence $\frac{17}{21}, \frac{31}{42}, \frac{5}{7} \text{ and } \frac{9}{14}$ are in descending order. Ans.

Question 26.

Solution:

: the numerators are equal

... The fraction having small denominator is greater than the fraction having large denominator

: In descending order, we can write

112,123,17,19,117,150

Question 27.

Solution:

Here, the numerators of all fractions are equal

... The fraction having small denominator is greater than the fraction having large denominator



Now in descending order is

34,35,37,311,313,317

Question 28.

Solution:

Lalita read 30 pages of a book containing 100 pages

She read 30100 = 310 part of the book and Sarita read 25 of the book

Now in 310 and 25, LCM of 10, 5 = 10

310 = 310

25 = 2×25×2 = 410

From above, Sarita read more

as 410 or 25>310

Question 29.

Solution:

Rafiq exercised for 23 hour and Rohit exercised for 34 hour

In 23 and 34, LCM of 3 and 4 = 12

23 = 2×43×4 = 812

34 = 3×34×3 = 912

912>812

=> 34>23

... Rohit exercised more time

Question 30.

Solution:



In VI A, 20 student passed out of 25 or 2025 or 45 students passed

But in VI B, 24 out of 30 passed 24 or 2430 or 45 students passed

Now 45 = 45

... Both sections gave same result

Ex 5E Solutions

Find the sum :

Question 1.

Solution:

58+18

= -	$\frac{5+1}{8}$	$=\frac{6}{8}$
=		$\frac{2}{5} = \frac{3}{5}$
	8÷2	24

Question 2.

Solution:

49+89

$$= \frac{4+8}{9} = \frac{12}{9}$$
$$= \frac{12 \div 3}{9 \div 3} = \frac{4}{3} = 1\frac{1}{3}$$

Question 3.

Solution:

135+245



85+145

(Changing into improper fractions)

$$=\frac{8+14}{5}=\frac{22}{5}=4\frac{2}{5}$$
 Ans.

Question 4.

Solution:

25+56

= 4+1518 (LCM of 9 and 6 = 18)

= 1918

= 1118

Question 5.

Solution:

712+916

$$=\frac{28+27}{48}$$
(LCM of 12 and 16 = 48)

$$=\frac{55}{48}=1\frac{7}{48}$$
 Ans.

Question 6.

Solution:

415+1720



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$$=\frac{16+51}{60}$$
(LCM of 15 and 20 = 60)

$$=\frac{67}{60}=1\frac{7}{60}$$
 Ans.

Question 7.

Solution:

234+556

= 114+356

(Changing into improper fractions)

$$= \frac{33+70}{12}$$
 (LCM of 4 and 6 = 12)
$$= \frac{103}{12} = 8\frac{7}{12}$$
 Ans.

Question 8.

Solution:

318+1512

= 258+1712

(Changing into improper fractions)

$$= \frac{75+34}{24}$$
 (LCM of 8 and 12 = 24)
$$= \frac{109}{24} = 4\frac{13}{24}$$
 Ans.

Question 9.



Solution:

2710+3815

= 2710+5315

(Changing into improper fractions)

$$= \frac{81 + 106}{30}$$

(LCM of 10 and 15 = 30)
$$= \frac{187}{30} = 6\frac{7}{30}$$
 Ans.

Question 10.

Solution:

323+156+2

113+116+21

(Changing into improper fractions)

 $= \frac{22 + 11 + 12}{6}$ (LCM of 3, 6, 1 = 6) $= \frac{45}{6} = \frac{45 \div 3}{6 \div 3} = \frac{15}{2} = 7\frac{1}{2}$ Ans.

Question 11.

Solution:

3+1415+1320

=31+1915+2320



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(Changing into improper fractions)

$$= \frac{180 + 76 + 69}{60}$$
(LCM of 1, 15 and 20 = 60)
$$= \frac{325}{60} = \frac{325 \div 5}{60 \div 5} = \frac{65}{12} = 5\frac{5}{12}$$
 Ans.

Question 12.

Solution:

313+414+616

103+174+376

(changing into improper fractions)

$$= \frac{40 + 51 + 74}{12} \quad (LCM \text{ of } 3, 4, 6 = 12)$$
$$= \frac{165}{12} = \frac{165 \div 3}{12 \div 3} = \frac{55}{4} = 13\frac{3}{4} \quad \text{Ans.}$$

Question 13.

Solution:

23+316+429+2518

23+196+389+4118



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(Changing into improper fractions)

$$= \frac{12 + 57 + 76 + 41}{18}$$
(LCM of 3, 6, 9, 18 = 18)
$$= \frac{186}{18} = \frac{186 \div 6}{18 \div 6} = \frac{31}{3} = 10\frac{1}{3}$$
 Ans.

Question 14.

Solution:

213+114+256+3712

$$= \frac{7}{3} + \frac{5}{4} + \frac{17}{6} + \frac{43}{12}$$

(Changing into improper fractions)
 $28 + 15 + 34 + 43$

$$= \frac{26 + 13 + 34 + 45}{12}$$
(LCM of 3, 4, 6, 12 = 12)
$$= \frac{120}{12} = 10$$
 Ans.

Question 15.

Solution:

2+34+156+3716

21+34+138+5516



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(Changing into improper fractions)

$$= \frac{32 + 12 + 26 + 55}{16}$$
(LCM of 1, 4, 8, 26 = 16)
$$= \frac{125}{16} = 7\frac{13}{16}$$
 Ans.

Question 16.

Solution:

Cost of a pencil = Rs. 325

Cost of an eraser = Rs.2710

Total cost = Rs.
$$3\frac{2}{5}$$
 + Rs. $2\frac{7}{10}$
= $\left(\frac{17}{5} + \frac{27}{10}\right)$ rupees
= $\frac{34 + 27}{10} = \frac{61}{10} = 6\frac{1}{10}$ rupees
= Rs. $6\frac{1}{10}$ Ans.

Question 17.

Solution:

Length of cloth for kurta = 412 metres

Length of cloth for pyjamas = 223 metres



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Total length of cloth =
$$\left(4\frac{1}{2}+2\frac{2}{3}\right)$$

rupees

$$= \left(\frac{9}{2} + \frac{8}{3}\right) \text{ rupees} = \frac{27 + 16}{6} = \frac{43}{6} \text{ metres}$$
$$= 7\frac{1}{6} \text{ metres} \quad \text{Ans.}$$

Question 18.

Solution:

Distance travelled by Rickshaw = 434 km

Distance travelled on foot = 112 km

Total distance =
$$\left(4\frac{3}{4}+1\frac{1}{2}\right)$$
km
= $\left(\frac{19}{4}+\frac{3}{2}\right)$ km
= $\frac{19+6}{4}=\frac{25}{4}=6\frac{1}{4}$ km Ans.

Question 19.

Solution:

Weight of empty cylinder = 1645 kg

Weight of gas filled in it = 1423 kg

Total. weight of cylinder with gas



$$= 16\frac{4}{5}kg + 14\frac{2}{3}kg$$
$$= \left(\frac{84}{5} + \frac{44}{3}\right)kg$$
$$= \frac{252 + 220}{15} = \frac{472}{15}kg$$
$$= 31\frac{7}{15}kg \quad Ans.$$

Ex 5F Solutions

Find the difference:

Question 1.

Solution:

58-18

= 5-18

= 48

= 4÷48÷4

= 12

Question 2.

Solution:

712-512

$$= \frac{7-5}{12} = \frac{2}{12}$$
$$= \frac{2 \div 2}{12 \div 2} = \frac{1}{6}$$
 Ans.



Question 3.

Solution:

437-247

(Changing into improper fractions)

$$=\frac{31-18}{7}=\frac{13}{7}=1\frac{6}{7}$$
 Ans.

Question 4.

Solution:

56-49

$$= \frac{15-8}{18}$$
 (LCM of 6 and 9 = 18)
= $\frac{7}{18}$ Ans.

Question 5.

Solution:

12-38

$$=\frac{4-3}{8}$$
 (LCM of 2 and 8 = 8)
= $\frac{1}{8}$ Ans.

Question 6.

Solution:



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58-712

$$= \frac{15 - 14}{24} \quad (LCM \text{ of } 8, 12 = 24)$$
$$= \frac{1}{24} \quad \text{Ans.}$$

Question 7.

Solution:

279-1815

= 259-2315

(changing into improper fractions)

$$= \frac{125 - 69}{45}$$
 (LCM of 9 and 15 = 45)
$$= \frac{56}{45} = 1\frac{11}{45}$$
 Ans.

Question 8.

Solution:

358-2512

= 298-2912

(Changing into improper fractions)

$$= \frac{87 - 58}{24}$$
 (LCM of 8 and 12 = 24)
$$= \frac{29}{24} = 1\frac{5}{24}$$
 Ans.



Question 9.

Solution:

2310-1715

= 2310-2215

(Changing into improper fractions)

$$= \frac{69 - 44}{30}$$
 (LCM of 10 and 15 = 30)
$$= \frac{25}{30} = \frac{25 \div 5}{30 \div 5} = \frac{5}{6}$$
 Ans.

Question 10.

Solution:

623-334

= 203-154

(Changing into improper fractions)

$$= \frac{80 - 45}{12}.$$
 (LCM of 3 and 4 = 12)
$$= \frac{35}{12} = 2\frac{11}{12}$$
 Ans.

Question 11.

Solution:

7-523

= 71-173

(changing into improper fractions)



$$=\frac{21-17}{3}=\frac{4}{3}=1\frac{1}{3}$$
 Ans.

Question 12.

Solution:

10-638

= 101-518

(changing into improper fractions)

$$=\frac{80-51}{8}=\frac{29}{8}=3\frac{5}{8}$$
 Ans.

Simpilify

Question 13.

Solution:

56-49+23

$$= \frac{15 - 8 + 12}{18}$$

(LCM of 6, 9, 3 = 18)
$$= \frac{27 - 8}{18} = \frac{19}{18} = 1\frac{1}{18}$$
 Ans.

Question 14.

Solution:

58+34-712



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$$= \frac{15 + 18 - 14}{24}$$

(LCM of 8, 4, 12 = 24)
$$= \frac{33 - 14}{24} = \frac{19}{24}$$
 Ans.

Question 15.

Solution:

2+1115-59

= 90+33-2545

(LCM of 15 and 9 = 45)

 $=\frac{123-25}{45}=\frac{98}{45}=2\frac{8}{45}$ Ans.

Question 16.

Solution:

534-4512+316

= 234-5312+196

(changing into improper fractions)

$$= \frac{69 - 53 + 38}{12} \quad (LCM \text{ of } 4, 12, 6 = 12)$$
$$= \frac{107 - 53}{12} = \frac{54}{12}$$
$$= \frac{54 \div 6}{12 \div 6} = \frac{9}{2} = 4\frac{1}{2} \quad \text{Ans.}$$

Question 17.



Solution:

2+5710-31415

= 21+5710-5915

(changing into improper fractions)

$$= \frac{60 + 171 - 118}{30} \text{ (LCM of 10, 15 = 30)}$$
$$= \frac{231 - 118}{30} = \frac{113}{30} = 3\frac{23}{30} \text{ Ans.}$$

Question 18.

Solution:

8-312-214

= 81-72-94

(changing into improper fractions)

 $= \frac{32 - 14 - 9}{4}$ (LCM of 2, 4 = 4) $= \frac{32 - 23}{4} = \frac{9}{4} = 2\frac{1}{4}$ Ans.

Question 19.

Solution:

856-338+2712

= 536-278+3112

(changing into improper fractions)



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$$= \frac{212 - 81 + 62}{24}$$
(LCM of 6, 8, 12 = 24)
$$= \frac{274 - 81}{24} = \frac{193}{24} = 8\frac{1}{24}$$
 Ans.

Question 20.

Solution:

616-515+313

= 376-265+103

(changing into improper fractions)

$$= \frac{185 - 156 + 100}{30} \text{ (LCM of 6, 5, 3 = 30)}$$
$$= \frac{285 - 156}{30} = \frac{129}{30}$$
$$= \frac{129 \div 3}{30 \div 3} = \frac{43}{10} = 4\frac{3}{10} \text{ Ans.}$$

Question 21.

Solution:

3+115+23-715

= 31+65+23-715



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$$= \frac{45 + 18 + 10 - 7}{15}$$
(LCM of 5, 3, 15, = 15)
$$= \frac{73 - 7}{5} = \frac{66}{15} = \frac{66 + 3}{15 + 3}$$

$$= \frac{22}{5} = 4\frac{2}{5}$$
 Ans.

Question 22.

Solution:

By subtracting 923 from 19, we get the required number

$$= 19 - 9\frac{2}{3} = \frac{19}{1} - \frac{29}{3}$$
$$= \frac{57 - 29}{3} = \frac{28}{3} = 9\frac{1}{3}$$

∴ $9\frac{1}{3}$ should be added. Ans.

Question 23.

Solution:

By subtracting 6715 from 815 we get the required number

$$= 8\frac{1}{5} - 6\frac{7}{15}$$

= $\frac{41}{5} - \frac{97}{15} = \frac{123 - 97}{15} = \frac{26}{15} = 1\frac{11}{15}$
 $\therefore 1\frac{11}{15}$ should be added. Ans.



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Question 24.

Solution:

Sum of 359 and 313

= 329+103

$$= \frac{32+30}{9} = \frac{62}{9}$$

Sum of $5\frac{5}{6}$ and $4\frac{1}{9} = \frac{35}{6} + \frac{37}{9}$
$$= \frac{105+74}{18} = \frac{179}{18}$$
Now, $\frac{179}{18} - \frac{62}{9} = \frac{179-124}{18}$
$$= \frac{55}{18} = 3\frac{1}{18}$$
Ans.

Question 25.

Solution:

34, 57



 $\therefore \frac{3}{4} = \frac{3 \times 7}{4 \times 7} = \frac{21}{28}$ (LCM of 4 and 7 = 28) $\frac{5}{7} = \frac{5 \times 4}{7 \times 4} = \frac{20}{28}$ From above we see that $\frac{21}{28} > \frac{20}{28}$ or $\frac{3}{4} > \frac{5}{7}$ Difference $= \frac{21}{28} - \frac{20}{28} = \frac{21 - 20}{28} = \frac{1}{28}$. Ans.

Question 26.

Solution:

Milk bought by Mrs. Soni = 712 litres

and milk consumed by here = 534 litres

$$\therefore \text{ Milk left with her} = \left(7\frac{1}{2} - 5\frac{3}{4}\right) \text{ litres}$$

$$\frac{15}{2} - \frac{23}{4} = \frac{30 - 23}{4} = \frac{7}{4} = 1\frac{3}{4}$$
 litres Ans.

Question 27.

Solution:

Total time of film show = 313 hours

Total spent on advertisement = 134 hours

Duration of the film



$$= \left(3\frac{1}{3} - 1\frac{3}{4}\right) \text{ hours } = \left(\frac{10}{3} - \frac{7}{4}\right) \text{ hours}$$
$$= \frac{40 - 21}{12} = \frac{19}{12} = 1\frac{7}{12} \text{ hours } \text{ Ans.}$$

Question 28.

Solution:

On a day, rickshaw pullar earned

= Rs.
$$137\frac{1}{2}$$
 = Rs. $\frac{275}{2}$
and he spent = Rs. $56\frac{3}{4}$

$$= \mathbf{Rs.} \ \frac{227}{4}$$

Amount left =
$$\frac{275}{2} - \frac{227}{4}$$

= $\frac{550 - 227}{4}$ = Rs. $\frac{323}{4}$
= Rs $80\frac{3}{4}$ Ans.

Question 29.

Solution:

Total length of wire =234-metres

Length of one piece = 58 metre





Length of the other piece



Ex 5G Solutions

Objective Questions :

Tick the correct answer in each of the following :

Question 1.

Solution:

(c) : canceling the common factor 2, we get 35

Question 2.

Solution:

(c) : multiplying numerator and denominator by 4, we get 812

Question 3.

Solution:

(b) ::
$$\frac{2}{3} = \frac{2 \times 12}{3 \times 12} = \frac{24}{36}$$
.

Question 4.



Solution:

$$(a) \quad \therefore \quad \frac{3}{4} = \frac{x}{20}$$
$$\implies 4 x = 20 \times 3$$
$$\implies x = \frac{20 \times 3}{4} = 15.$$

Question 5.

Solution:

$$(a) :: \frac{45}{60} = \frac{3}{x}$$
$$\implies 45x = 3 \times 60$$
$$\implies x = \frac{3 \times 60}{45} = 4$$

Question 6.

Solution:

(c) each of the fractions has the same denominator.

Question 7.

Solution:

(d) none of these has greater denominator than its numerator.

Question 8.

Solution:

(a) its denominator is greater than its numerator.



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Question 9.

Solution:

(b) their numerators are same and 4 < 5, 34>35

Question 10.

Solution:

(c)
$$\therefore \frac{3}{5}, \frac{2}{3}, \frac{5}{6}, \frac{7}{10}$$

 $\frac{18}{30}, \frac{20}{30}, \frac{25}{30}, \frac{21}{30}$
(LCM of 5, 3, 6, 10 = 30)

Question 11.

Solution:

(b) In 45,27,49,411 numerator is same then the smallest denominator's fraction is greater.

Question 12.

Solution:

(a) Denominators are same, then fraction of smallest numerator will be smallest.

Question 13.

Solution:



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(d) :
$$\ln \frac{3}{4}, \frac{5}{6}, \frac{7}{12}, \frac{2}{3}$$

= $\frac{9}{12}, \frac{10}{12}, \frac{7}{12}, \frac{8}{12}$
The smallest is $\frac{7}{12}$.

Question 14.

Solution:

$$(b):: 4\frac{3}{5} = \frac{4 \times 5 + 3}{5} = \frac{23}{5}$$

Question 15.

Solution:

$$(c)::\frac{34}{7}=4+\frac{6}{7}=4\frac{6}{7}.$$

Question 16.

Solution:

(b) :
$$\frac{5}{8} + \frac{1}{8} = \frac{5+1}{8} = \frac{6}{8} = \frac{3}{4}$$
.

Question 17.

Solution:

$$(b): \frac{5}{8} - \frac{1}{8} = \frac{5-1}{8} = \frac{4}{8} = \frac{1}{2}.$$



Question 18.

Solution:

(a) :
$$3\frac{3}{4} - 2\frac{1}{4} = (3-2) + \left(\frac{3}{4} - \frac{1}{4}\right)$$

= $1 + \frac{2}{4} = 1 + \frac{1}{2} = 1\frac{1}{2}$.

Question 19.

Solution:

$$(d) :: \frac{5}{6} + \frac{2}{3} - \frac{4}{9}$$
$$\frac{15 + 12 - 8}{18} = \frac{27 - 8}{18} = \frac{19}{18} = 1\frac{1}{18}.$$

Question 20.

Solution:



$$(a) :: 3\frac{1}{3}, \frac{33}{10}$$

$$\Rightarrow \frac{10}{3}, \frac{33}{10}$$

$$\Rightarrow \frac{10 \times 10}{3 \times 10}, \frac{33 \times 3}{10 \times 3}$$

$$\Rightarrow \frac{100}{30}, \frac{99}{30}$$

$$\Rightarrow \frac{100}{30} > \frac{99}{30}$$

$$\Rightarrow \frac{100}{30} > \frac{99}{30}$$

$$\Rightarrow \frac{31}{3} > \frac{33}{10}$$
 Ans.





RS Aggarwal Class 6 Solutions

- <u>Chapter 1–Number System</u>
- <u>Chapter 2–Factors and</u>
 <u>Multiples</u>
- <u>Chapter 3–Whole Numbers</u>
- <u>Chapter 4–Integers</u>
- <u>Chapter 5–Fractions</u>
- <u>Chapter 6–Simplification</u>
- <u>Chapter 7–Decimals</u>
- <u>Chapter 8–Algebraic</u> <u>Expressions</u>
- <u>Chapter 9–Linear Equations</u> <u>in One Variable</u>
- <u>Chapter 10–Ratio</u>,
 <u>Proportion and Unitary</u>
 Method
- <u>Chapter 11–Line Segment,</u> <u>Ray and Line</u>
- <u>Chapter 12–Parallel Lines</u>
- <u>Chapter 13–Angles and</u>
 <u>Their Measurement</u>

- <u>Chapter 14–Constructions</u> (Using Ruler and a Pairs of <u>Compasses</u>)
- <u>Chapter 15–Polygons</u>
- <u>Chapter 16–Triangles</u>
- <u>Chapter 17–Quadrilaterals</u>
- <u>Chapter 18–Circles</u>
- <u>Chapter</u>
 <u>19–Three-Dimensional</u>
 <u>Shapes</u>
- <u>Chapter</u>
 <u>20–Two-Dimensional</u>
 <u>Reflection Symmetry (Linear</u>
 <u>Symmetry)</u>
- <u>Chapter 21–Concept of</u> <u>Perimeter and Area</u>
- <u>Chapter 22–Data Handling</u>
- <u>Chapter 23–Pictograph</u>
- <u>Chapter 24–Bar Graph</u>



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Postal Address

IndCareer.com 52, Shilpa Nagar, Somalwada Nagpur - 440015 Maharashtra, India

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