

Important Questions for CBSE Class 6 Maths Chapter 7 – Fractions

Ch-7 Fractions

1. Which of the following is a smaller fraction?

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

2. Express as mixed fraction $\frac{169}{169}$.

1. $2\frac{7}{279}$

2. $1\frac{59}{159}$

3. $1\frac{79}{179}$

4. $2\frac{59}{259}$

3. What fraction of an hour is 45 minutes?

1. None of these

2. $\frac{3}{4}$

3. $\frac{1}{4}$

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

4. $\frac{17}{101} \frac{12}{101} \frac{17}{101} \frac{12}{101}$

(a) None of these (b) $>$ (c) $=$ (d) $<$

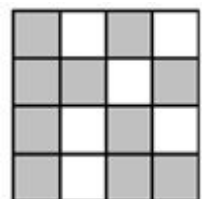
5. Write the fraction representing the shaded region in the given square.

1. $\frac{4}{16}$

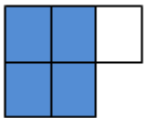



2. $\frac{9}{16}$

3. $\frac{5}{16}$

4. $\frac{10}{16}$



6. Match the following:

Column I	Column II
(a) 	(i) 5959
(b) 	(ii) 1212
(c) 	(iii) 1313
(d) 	(iv) 4545

7. Fill in the blanks:

There is a large box of 36 small square boxes.

1. 1212 of it is _____.
2. 2323 of it is _____.
3. If I make a bench of 20 small boxes, the fraction becomes _____.
4. _____ boxes are required if fraction is 5656.

8. State True or False:

1. In 3737, 3 is the part of whole.
 2. On a number line, 2727 is to the right of zero.
 3. 2525 is smaller than 1515.
 4. 28452845 and 3535 represent equivalent fractions.
9. Solve : $165 - 75$ $165 - 75$
 10. Colour the part according to $\frac{3}{4}$.
 11. Find the equivalent fraction $\frac{35}{35}$ having numerator 27.
 12. Rewrite the fractions in the simplest form
 1. $\frac{86}{86}$
 2. $\frac{447244}{72}$
 13. Express the following as mixed fraction : $\frac{196}{196}$
 14. Show 10101010 on the number line.

15. Find the missing entries in the tables:

Fraction in standard form	Numerator	Denominator	Diagrammatic Representation
$\frac{6767}{84}$	84	a	
$\frac{b}{5}$	5	6	
$\frac{9 \times 25 \times 29 \times 25 \times 2}{c}$	c	10	

Answer

1.

a. $\frac{4545}{84}$ Explanation: $\frac{4}{5}, \frac{5}{6}, \frac{5}{3}, \frac{5}{2}$ lcm of denominator $(5,6,3,2)=30$
 $\frac{45,56,53,52}{24,25,50,7530}$
 $\frac{45,56,53,52}{24,25,50,7530}$ smaller fraction
 $=\frac{24302430}{i.e. 4545}$

2.

c. $17\frac{7}{9}$ Explanation: $16 \div 9 = 1$ quotient is 1 which is a whole number and remainder is 7 which is a numerator of a proper fraction and denominator of proper fraction is 9 so mixed fraction = $17\frac{7}{9}$

3.

b. $\frac{3434}{60}$ Explanation: 1 hour = 60 minutes
 $\frac{4560}{60} = 45 \div 15 = 3$
 $\frac{4560}{60} = 45 \div 15 = 34$

4.

b. $>$
 Explanation: denominator is 101 so $\frac{17101}{101} > \frac{12101}{101}$

5.

d. $\frac{10161016}{16}$ Explanation: Total part = 16, shaded part = 10
 Fraction = $\frac{10161016}{16}$

6.

1. $\frac{4}{5}$ (iv)
 4 parts are shaded out of 5 parts.
 Therefore, the shaded portion = $\frac{4}{5}$
2. $\frac{5}{9}$ (i)
 5 parts are shaded out of 9 parts.
 Therefore, the shaded portion = $\frac{5}{9}$
3. $\frac{3}{6}$ (ii)
 3 parts are shaded out of 6 parts.
 Therefore, the shaded portion = $\frac{3}{6} = 3 \div 3 = 1$
4. $\frac{1}{3}$ (iii)
 1 part is shaded out of 3 parts.
 Therefore, the shaded portion = $\frac{1}{3}$

7.

1. 18

1212 of 36 boxes
 $= 12 \times 12 \times 36 = 362362 = 18$ boxes.

2. 24

2323 of 36 boxes
 $= 23 \times 23 \times 36 = 2 \times 3632 \times 363 = 2 \times 12 = 24$ boxes.

3. 5959

If a bench is made with 20 boxes out of 36 boxes, the fraction
 $= 2036 = 20 \div 436 \div 4 = 592036 = 20 \div 436 \div 4 = 59$

4. 30

Let xx boxes out of 36 boxes makes fraction 5656
i.e., $x36 = 56x36 = 56$
 $x = 56 \times 36 = 5 \times 366x = 56 \times 36 = 5 \times 366 = 5 \times 6 = 30$.
Therefore, 30 boxes makes the fraction 5656

8.

1. True

In the fraction, 3737, numerator is 3 and denominator is 7, which means that a unit has been divided into 7 equal parts out of which 3 parts have been taken into account.

2. True

All positive fractions are greater than zero and lies to the right of zero.

3. False

When denominators are same in two fractions, the fraction with the greater numerator is greater than the other fraction.

Here, in the frations 25 and 1525 and 15, denominators are same and in the numerators 2 and 1, 2 is greater than 1.

So, $25 > 1525 > 15$

4. False

In the fractions, 28452845 and 3535 comparing their cross products,
 $28 \times 5 = 140$ and $28 \times 5 = 140$ and $45 \times 3 = 135$ and $45 \times 3 = 135$, we observe that they are not equal.

Hence, 28452845 and 3535 are not equivalent fractions.

9. $165 - 75 = 16 - 75 = 95 = 145$ and $165 - 75 = 16 - 75 = 95 = 145$

10. 3434 means 3 parts out of 4 parts.

So, colour 3 parts out of 4 parts given.



11. $35 = 3 \times 95 \times 9 = 2745$ and $35 = 3 \times 95 \times 9 = 2745$

12.

1. $86 = 86 = 8 \div 26 \div 2 = 43$ and $8 \div 26 \div 2 = 43$

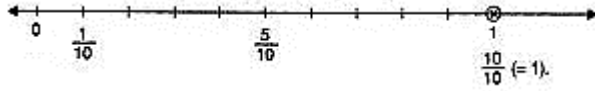
2. $4472 = 4472 = 44 \div 272 \div 2 = 22 \div 236 \div 2 = 1118$ and $44 \div 272 \div 2 = 22 \div 236 \div 2 = 1118$

13. $196 = 19 \div \div 6$

$$\begin{array}{r} 6 \overline{)19} \text{ (3)} \\ \underline{18} \\ 1 \end{array}$$

$\therefore 196 = 316196 = 316$

14. 10101010 is 1 whole, which can be shown by the point 1.



15.	Fraction in standard form	Numerator	Denominator	Diagrammatic Representation
	$\frac{6767}{9898}$	84	9898	
	$\frac{5656}{6}$	5	6	
	$\frac{95}{10} = \frac{14595}{145} = \frac{145}{10}$	1818	10	

a. $6767 = 6 \times 147 \times 14 = 84986 \times 147 \times 14 = 8498$ b. $56 = 5 \times 16 \times 1 = 5656 = 5 \times 16 \times 1 = 56$ c. $95 = 9 \times 25 \times 2 = 181095 = 9 \times 25 \times 2 = 1810$