VIDYA SHREE ACADEMY
SR. SEC. SCHOOL
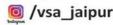### An English Medium Co.Ed. School | Science & Commerce

VSA
A Real English Medium School

Little Steps
Pre Primary wing of VSA

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Sub:Maths   class-7   Topic-Multiplication of fractions

Do all questions of Ex-2.3 ,one of each type is done for you.

EXERCISE 2.3

Use Cordova Smart Class Software on the smart board in class to do Exercise.

1. Multiply and reduce to lowest form :

(i) $9 \times \frac{2}{5}$ (ii) $5 \times \frac{3}{7}$ (iii) $13 \times \frac{1}{4}$ (iv) $\frac{5}{3} \times 27$

2. Multiply and express as a mixed fraction :

(i) $6 \times 2\frac{1}{9}$ (ii) $5\frac{1}{4} \times 6$ (iii) $2\frac{3}{5} \times 6$

3. Find :

(i) $\frac{1}{2}$ of $3\frac{2}{9}$ (ii) $\frac{1}{3}$ of $\frac{15}{7}$ (iii) $\frac{1}{3}$ of $3\frac{2}{9}$

4. Multiply and reduce to lowest form (if possible) :

(i) $\frac{3}{5} \times 2\frac{2}{5}$ (ii) $\frac{3}{5} \times \frac{5}{6}$ (iii) $\frac{1}{4} \times \frac{32}{3}$ (iv) $7\frac{3}{4} \times \frac{8}{5}$

5. Which is greater?

(i) $\frac{2}{3}$ of $\frac{1}{5}$ or $\frac{3}{5}$ of $\frac{5}{6}$ (ii) $\frac{4}{5}$ of $\frac{5}{6}$ or $\frac{2}{3}$ of $\frac{4}{5}$

6. Find :

(i) $\frac{3}{4}$ of a year   (ii) $\frac{2}{5}$ of a rupee   (iii) $\frac{1}{4}$ of an hour   (iv) $\frac{11}{25}$ of a litre

7. Priyanka has 24 apples. $\frac{3}{4}$ of these are found to be rotten. Find the number of rotten apples.

8. A rectangular park is $21\frac{3}{7}$ m long and $12\frac{3}{5}$ m wide. What is the area of the park?

9. Apples are sold at ₹ $15\frac{3}{4}$ per kg. Find the cost of $6\frac{1}{2}$ kg of apples.

10. Rohit covers $2\frac{2}{5}$ km in one hour. How much distance will he cover in $3\frac{1}{3}$ hours?

30 MATHEMATICS-7

Ex - 2.3 (class - 7)

11. There are 48 students in a class and $\frac{2}{3}$ of them are boys. How many girls are there in the class?

12. A car runs 18 km in 1 litre of petrol. How much distance will it cover in $3\frac{1}{3}$ litres of petrol?

13. Varad reads $\frac{1}{4}$ part of a book in one hour. How much part of the book will he read in $3\frac{1}{2}$ hours?

14. A book contains 320 pages. Vishal reads $\frac{3}{5}$ of the book. How many pages are left to be read?

15. A tin contains 21 kg of sugar. If $\frac{2}{3}$ of it has been consumed, how much sugar is left in the tin?

CLASS - 7
CHAPTER - 2
EX - 2.3
MULTIPLICATION OF FRACTIONS

1. multiply and reduce to lowest form!

(i) $9 \times \dfrac{2}{5} = \dfrac{18}{5} = 3\dfrac{3}{5}$

2. multiply and express as a mixed fraction! -

(i) $6 \times 2\dfrac{1}{9} = \overset{2}{\cancel{6}} \times \dfrac{19}{\underset{3}{\cancel{9}}} = \dfrac{38}{3} = \cancel{\dfrac{8}{3}}$

$= 12\dfrac{2}{3}$

3. find :

(i) $\dfrac{1}{2}$ of $3\dfrac{2}{9} = \dfrac{1}{2} \times \dfrac{29}{9}$ (of means 'x')

$= \dfrac{29}{18} = 1\dfrac{11}{18}$ Ans

4. multiply and reduce to lowest form!

(i) $\dfrac{3}{5} \times 2\dfrac{2}{5}$

$= \dfrac{3}{5} \times \dfrac{12}{5} = \dfrac{36}{25} = 1\dfrac{11}{25}$

5. which is greater ?

(i) $\dfrac{2}{3}$ of $\dfrac{1}{5}$ or $\dfrac{3}{5}$ of $\dfrac{5}{6}$

$= \dfrac{2}{3} \times \dfrac{1}{5} = \dfrac{2}{15}$, $\dfrac{3}{5} \times \dfrac{5}{\underset{2}{6}} = \dfrac{1}{2}$

In $\dfrac{2}{15}$ & $\dfrac{1}{2}$, make denominator same,

$$\frac{2}{15} \& \frac{1}{2}$$

$$\frac{2}{15} \times \frac{2}{2} = \frac{4}{30} , \quad \frac{1}{2} \times \frac{15}{15} = \frac{15}{30}$$

Now $15 > 4$

$$\therefore \quad \frac{15}{30} > \frac{4}{30}$$

or $\frac{3}{5}$ of $\frac{5}{6} > \frac{2}{3}$ of $\frac{1}{5}$

6. find

(i) $\frac{3}{4}$ of a year $= \frac{3}{4} \times \overset{3}{\cancel{12}}$

(1 year = 12 months.) $= 9$ months

7. priyanka has 24 Apples.

$\frac{3}{4}$ of these Apples are rotten

Therefore, $\frac{3}{4} \times \overset{6}{\cancel{24}} = 18$ Apples.

∴ number of rotten
Apples are = 18 Apples.