

Std 5 MATHEMATICS

HALF YEARLY

CH 5 FACTORS AND MULTIPLES

Q1. MCQ

1. Which of the following is the factor of 24?
a. 5 b. 6 c. 7 d. 11

Ans : b

2. How many factors does 16 have?
a. 3 b. 4 c. 5 d. 6

Ans:- c

3. Which number is a multiple of both 4 and 6?
a. 10 b. 12 c. 14 d. 18

Ans:- b

4. Which of the following is not a factor of 30?
a. 5 b. 6 c. 8 d. 10

Ans:- c

5. The HCF of two prime numbers is always
a. 0 b. 1 c. 2 d. the greatest number

Ans: b

Q2. CASE STUDY

1. A gardener has 18 rose plants and 30 sunflower plants. He wants to arrange them into equal rows so that each row has only one type of plant
a. Which concept should be used to solve this problem?

Ans : HCF

- b. Find the HCF of 18 and 30.

Ans:- $HCF = 6$

- c. How many rows of each type can be made?

Ans: 6 rows

2. Three buses leave a bus stand every 9 minutes, 12 minutes and 18 minutes. They leave together at 9:00 am

a. What is the LCM of 9, 12 and 18?

Ans:- 36

b. After how many minutes will they leave together again?

Ans:- 36 minutes

c. At what time will they leave together again

Ans:- 9:36 am

Q3. Find the first common multiple of 7 and 6.

Ans :- Multiples of 7 – 7, 14, 21, 28, 35, 42, ...

Multiples of 6 = 6, 12, 18, 24, 30, 36, 42, ...

First Common multiple = 42

Q4. Find the HCF and LCM of 24 and 48.

Ans:- $24 = 2 \times 2 \times 2 \times 3$

$48 = 2 \times 2 \times 2 \times 2 \times 3$

$HCF = 2 \times 2 \times 2 \times 3 = 24$

$LCM = 2 \times 2 \times 2 \times 3 \times 2 = 48$

Q5. Find the LCM of the two numbers whose HCF is 4 and product is 576.

Ans:- $LCM = \text{product of two numbers} \div HCF$

$= 576 \div 4 = 144$

The LCM of two numbers is 144

Ch. 6 FRACTIONS

Q1. MCQ

1. Which fraction is equal to a whole?

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

b. $\frac{5}{5}$

c. $\frac{2}{5}$

d. $\frac{4}{7}$

Ans :- b

2. $\frac{9}{13} - \frac{6}{13}$

- a. $\frac{15}{13}$ b. $\frac{6}{13}$ c. $\frac{3}{13}$ d. $\frac{9}{13}$

Ans:- c

3. Which fraction is equivalent to $\frac{4}{8}$?

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

Ans :- b

4. $\frac{6}{6}$ is equal to

- a. 0 b. 1 c. 6 d. $\frac{1}{6}$

Ans:- b

5. Which of the following is an improper fraction?

- a. $\frac{2}{7}$ b. $\frac{5}{9}$ c. $\frac{9}{4}$ d. $\frac{3}{8}$

Ans:- c

Q2. Write four equivalent fraction for $\frac{9}{11}$

Ans:- $\frac{18}{22}, \frac{27}{33}, \frac{36}{44}, \frac{45}{55}$

Q3. Reduce $\frac{15}{60}$ into lowest term.

Ans:- $\frac{15 \div 15}{60 \div 15} = \frac{1}{4}$

Q4. Compare $\frac{5}{12}$ and $\frac{6}{7}$

Ans:- $5 \times 7 = 35$

$6 \times 12 = 72$

$35 < 72$

So $\frac{5}{12} < \frac{6}{7}$

CASE STUDY

A. Priya read $\frac{2}{5}$ of a story book on Monday and $\frac{1}{5}$ on Tuesday

1. What fraction of the book did she read in two days?

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

2. What fraction is left to read?

$$\text{Ans :- } \frac{5}{5} - \frac{3}{5} = \frac{2}{5}$$

3. Did she read more than half of the book?

Ans:- Yes

B. Four friends shared a pizza.

Rahul ate $\frac{2}{8}$, Aman ate $\frac{3}{8}$, Meera ate $\frac{1}{8}$

1. What fraction of the pizza was eaten altogether?

$$\text{Ans :- } \frac{2}{8} + \frac{3}{8} + \frac{1}{8} = \frac{6}{8} = \frac{3}{4}$$

2. What fraction of the pizza was left?

$$\text{Ans:- } \frac{8}{8} - \frac{6}{8} = \frac{2}{8} = \frac{1}{4}$$

3. Who ate the largest share?

Ans:- Aman

Ch. 7 DECIMALS

Q1. MCQ

1. Which one is correct?

a. $3.45 > 3.54$ b. $3.45 < 3.54$ c. $3.45 = 3.54$ d. None of these

Ans :- b

2. $2.4 \times 10 =$

a. 0.24 b. 24 c. 240 d. 2.04

Ans:- b

3. $5.6 \div 10 =$
a. 56 b. 0.56 c. 5.06 d. 0.056

Ans:- b

4. The place value of 5 in 6.57 is
a. 5 b. 5 hundredths c. 5 tenths d. 50

Ans:- c

5. $3.75 + 1.25 =$
a. 4.00 b. 5.50 c. 4.50 d. 5.00

Ans:- d

Q2. CASE STUDY

A. Mr Sharma bought 2.5kg of rice, 1.75kg of sugar and 3.25 kg of wheat.

1. Find the total weight of the three items

Ans:- $2.5 + 1.75 = 3.25 = 7.50$ kg

2. How much more wheat than sugar did she buy?

Ans:- $3.25 - 1.75 = 1.50$ kg

3. Which item weighs the least?

Ans :- Sugar – 1.75 kg

B. The height of four students are

Rohan 1.35m, Riya 1.42m, Neha 1.28m and Kabir 1.40m

1. Arrange the heights in ascending order

Ans:- 1.28m, 1.35m, 1.40m, 1.42m

2. Find the difference between the tallest and the shortest student.

Ans:- $1.42\text{m} - 1.28\text{m} = 0.14$ m

3. What is the total height f all four students?

Ans:- $1.35\text{m} + 1.42\text{m} + 1.28\text{m} + 1.40\text{m} = 5.45\text{m}$

Ch 10 MEASUREMENT

Q1. MCQ

1. Which is the smallest unit of length?
a. kilometre b. metre c. centimetre d. millimetre

Ans :- d

2. Which unit is used to measure the distance between two cities?
a. cm b. m c. km d. mm

Ans:- c

3. Which is heavier?
a. 750g b. 1 kg c. 500g d. 250g

Ans:- b

4. Which one is equal to 3km?
a. 300m b. 3000m c. 30000m d. 300m

Ans:- b

5. 2500 ml =
a. 2 litre 500 ml b. 2 litre 50ml c. 25 litre d. 250 ml

Q2. CASE STUDY

A tailor had 12m 80cm of cloth. He used 4m 35cm to stitch uniforms and 3m 25cm to stitch curtains.

1. How much cloth was used altogether?

Ans:- $4\text{m } 35\text{cm} + 3\text{m } 25\text{cm} = 7\text{m } 60\text{cm}$

2. How much cloth is left?

Ans:- 5m 20cm

3. Is the remaining cloth more than 5m?

Ans: Yes

Q3. A bag contains 4kg 250g of rice. Another bag contains 2kg 750g of rice. Find the total weight and express it in grams.

Ans : $4\text{kg } 250\text{g} + 2\text{kg } 750\text{g} = 7\text{kg}$

$7\text{kg} = 7000\text{g}$

Q4. A bus travels 125km to a museum and returns by the same route. What is the total distance travelled? Express it in metres.

Ans:- $125 + 125 = 250\text{km}$

$250\text{km} = 250000\text{ metres}$