

WORKSHEET 1

Integers

Multiple Choice Questions

- The integers 3, -4, 17 and -8 are marked on a number line. The one that comes on the extreme right is:
(a) 3 (b) -4 (c) 17 (d) -8
- Which symbol should be put in the box to make the given statement true?
 $-3 \square -7$
(a) = (b) < (c) > (d) None of these
- The number of integers between -5 and +7 are:
(a) 10 (b) 11 (c) 12 (d) 13
- The value of a non-zero integer 'k' divided by zero is:
(a) 0 (b) 1 (c) k (d) not defined
- On adding x to its additive inverse, we get:
(a) 0 (b) x (c) -2x (d) 2x

Mental Maths

- What is $0 \div 3$?
- Simplify $-4 + 4 \times 2$
- Evaluate $-7 \times -6 \times -5 \times \dots \times 6 \times 7$
- The sign of the product of two integers having same sign will always be _____.
- $(-12) \div (-4) = \underline{\hspace{2cm}}$
- Out of -8, -1, 2, 7 the integer closest to zero is _____.
- $37 \div \underline{\hspace{2cm}} = 37$
- $-53 \div \underline{\hspace{2cm}} = 1$
- Addition of integers satisfy closure property. (True/False)
- Multiplication of integers is not commutative. (True/False)

Questions

- Solve $(-168) \times 33 + (-168) \times 67$
- Rooma has 37 beyblades and her brother has 32. What is the total number of beyblades they have?
- Simmi was 7 km south of her school on a straight road. After an hour, she was 5 km north of her school. How many kilometres did she travel?
- Tarun deposited ₹ 600, ₹ 800 and ₹ 1,100 in his bank account. He withdrew ₹ 900 and ₹ 400 from his account. What is the amount in his account now?
- A water tank contains 100 litres of water. Due to leakage in the tank, the quantity of water is decreasing at the rate of 7 litres every hour. How much water is left in the tank after 9 hours?
- The temperature at midnight was 8°C below zero. If it increases at the rate of 2°C per hour, what will be the temperature at 6 a.m.?

22. In a competitive examination, Simran attempted 40 questions out of 50. She gets 4 marks for every correct answer and -1 for every incorrect answer. No marks are awarded for not attempting any question. What is Simran's score if half of the questions she attempted are correct?
23. Use the associative property to simplify $751 \times 125 \times 4 \times 2$.
24. Joe is a young enthusiastic high jumper. In the first trial of a high jump event he could jump only 5 feet. In each successive trial, he managed to jump 3 inches more than his previous jump. How high is Joe able to jump in the fifth trial?
25. A shopkeeper sells furniture. He sells a table at a profit of ₹ 300 each and incurs a loss of ₹ 125 on selling one chair. What is the number of tables he must sell to have no profit no loss, if he sells 24 chairs?
26. Using appropriate brackets, write a mathematical expression for each of the following.
- (a) Eighty-one divided by one less than the sum of nine and one
 - (b) Sixty divided by ten times the sum of two and four
 - (c) Seventeen subtracted from two-third the sum of forty-five and fifty-four

WORKSHEET 2

Fractions

Multiple Choice Questions

1. The product of $\frac{3}{4}$ and $\frac{4}{3}$ is:

- (a) $\frac{9}{16}$ (b) $\frac{16}{9}$ (c) 1 (d) $\frac{7}{8}$

2. The value of the expression $\frac{17}{9} \times \frac{37}{36}$ is:

- (a) $\frac{172}{324}$ (b) $\frac{318}{531}$ (c) $\frac{629}{324}$ (d) 1

3. Which of the following expressions correctly represent the given relation?



- (a) $4 \times \frac{1}{6} = \frac{4}{6}$ (b) $6 \times \frac{1}{4} = \frac{6}{4}$ (c) $4 + \frac{1}{6} = \frac{25}{6}$ (d) $3 \times \frac{1}{5} = \frac{3}{5}$

4. The value of $\frac{2}{3} \div \frac{1}{2}$ is:

- (a) $\frac{1}{3}$ (b) $\frac{4}{3}$ (c) $\frac{7}{6}$ (d) $\frac{5}{3}$

5. The value of $\frac{2}{5} + \frac{3}{5}$ is:

- (a) $\frac{4}{5}$ (b) $\frac{5}{4}$ (c) 1 (d) $\frac{6}{25}$

Mental Maths

6. Evaluate $5 \div 2\frac{1}{3}$

7. How many years are there in $\frac{3}{4}$ of a century?

8. How many minutes are there in $\frac{2}{5}$ of an hour?

9. The reciprocal of $\frac{3}{7}$ is _____.

10. $\frac{3}{5} - \frac{2}{25} =$ _____

11. The area of a square field whose each side measures $3\frac{1}{2}$ m is _____.

12. The fraction representing the shaded part of the given circle is _____.

13. The product of two proper fractions is always proper. (True/False)

14. The multiplicative inverse of 1 does not exist. (True/False)



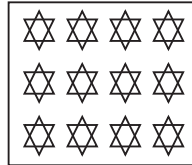
15. Find the fraction equivalent to $\frac{3}{5}$ having numerator 21.

Questions

16. A chip is rectangular in shape. It is $2\frac{1}{3}$ cm long and $1\frac{2}{3}$ cm wide. Find its perimeter.
17. Find the area of the rectangle whose sides are $5\frac{2}{3}$ cm long and $3\frac{1}{4}$ cm wide.
18. Abhinav finishes reading a letter in $1\frac{7}{8}$ hours while Anna finishes reading the same letter in $\frac{13}{6}$ hours. Who took longer and by how much?
19. Rohit can solve a rubik's cube in $3\frac{2}{5}$ minutes while Serena can solve two faces in $\frac{13}{22}$ minutes. Who can solve the cube faster?
20. Multiply and express as a mixed fraction:

$$3 \times 4\frac{1}{5} + 2 \times 3\frac{2}{5}$$

21. Shade $\frac{3}{4}$ of the stars given in the adjoining figure.



22. Find the value of the expression $\left(3\frac{2}{4} \div 1\frac{1}{4}\right) \times 4\frac{1}{2}$.
23. Find the distance covered by a car in $3\frac{3}{4}$ hours if it travels at a uniform speed of 60 km per hour.
24. Salim spent $2\frac{1}{2}$ hours on homework per day such that $\frac{1}{4}$ hour of this time was spent on English. How much time did he spend on other subjects?
25. 2,400 people attended a wedding reception. $\frac{7}{16}$ of them were men and $\frac{13}{24}$ of them were children. The remaining were ladies. What fraction of them were ladies? Also find the number of ladies.

WORKSHEET 3

Decimals

Multiple Choice Questions

- On dividing .2750 by 100 we get:
(a) 27.50 (b) .002750 (c) 275 (d) 2.75
- If the decimal numbers 6.471, 6.479, 6.4701 are arranged in ascending order then the first decimal in the series is:
(a) 6.4701 (b) 6.471 (c) 6.479 (d) none of these
- When we subtract 3.842 from 3842.7, we get:
(a) 3,838.858 (b) 7 (c) 3,458.5 (d) 7,684.7
- The place value of 3 in 7.0031 is:
(a) $\frac{1}{10}$ (b) $\frac{1}{100}$ (c) $\frac{1}{1,000}$ (d) $\frac{3}{1,000}$
- When we multiply .05 by .05 we get:
(a) .25 (b) .0025 (c) .0250 (d) 25

Mental Maths

- When .001 is multiplied by 1,000 we get _____.
- A number having four decimal places is always greater than a number having two decimal places. (True/False)
- The product of a proper and an improper fraction is less than the improper fraction and greater than the proper fraction. (True/False)
- Convert $\frac{4}{1,000}$ into decimal.
- If .5 is divided by .05 we get _____.
- What will you get if $.1 \times .01 \times .001$ are multiplied?
- Write 1200.08 in the expanded form.
- Which is greater: 1.37 or 13.7?
- What is the product of $105 \times .10$?
- What will be the result if 105 is divided by 100?

Questions

- The cost price of one ice cream is ₹ 4.75. Find the total cost of money spent if 100 people had ice creams.
- A car travels 47.25 km in 15 L of petrol. Find the distance travelled by the car in 1 L petrol.
- Sita bought 5 kg 30 gm apple and Rita bought 5 kg 300 gm apple. Who bought more apple and how much?
- Find the perimeter of a rectangle whose length is 5.65 cm and breadth is 2.05 cm.
- Three different woods of length 6.15 cm, 15.25 cm and 0.75 cm are joined together. Find the length of the new piece of wood obtained.