

SUMMER HOLIDAY HOMEWORK

CLASS: VII (MATHEMATICS)

NAME:

SEC:.....

❖ Positive and Negative numbers

Complete the difference table

| | | | | |
|----|---|----|---|-----|
| D | 2 | -5 | 4 | -10 |
| -7 | 9 | | | |
| 6 | | | | |
| 10 | | | | |
| -9 | | | | |

| | | | | |
|-----|----|-----|-----|----|
| D | 16 | -14 | -12 | 18 |
| -10 | | | | |
| 12 | | | | |
| 24 | | | | |
| -18 | | | | |

| | | | | |
|------|-----|------|------|-----|
| D | 1.5 | -1.8 | -1.6 | 1.7 |
| -2.5 | | | | |
| -3.4 | | | | |
| -3.7 | | | | |
| -1.8 | | | | |

| | | | | |
|------|------|-----|------|-----|
| D | -4.8 | 5.9 | -6.5 | 2.6 |
| 1.3 | | | | |
| -2.8 | | | | |
| 3.6 | | | | |
| -4.5 | | | | |

ROUGH WORK

❖ **INTEGER GOLF SCORE CARD**

Player 1.....

Player 2.....

| | Objective | Stroke player 1 | Stroke player2 |
|--------------------------------|-----------------------------------------------------------|-----------------|----------------|
| 1 | The sum is negative | | |
| 2 | The product is less than-10 | | |
| 3 | The sum is -3 or 3 | | |
| 4 | The difference is less than-7 | | |
| 5 | The sum is divisible by 2 | | |
| 6 | The quotient of the absolute value of the two number is 2 | | |
| 7 | The absolute value of the sum is 4 | | |
| 8 | The quotient is -2 | | |
| 9 | The sum of the absolute value of the two numbers is 8 | | |
| 10 | The sum is -4 | | |
| 11 | The product is -12 | | |
| 12 | The product is divisible by 3 | | |
| 13 | The quotient is -1 | | |
| 14 | The absolute value of both numbers is even. | | |
| 15 | The difference is -2 | | |
| 16 | The product of absolute value of two number is 18 | | |
| 17 | The product is greater than-10 | | |
| Total number of Strokes | | | |

❖ **Calculate the answers to these divisions and write the answers in the box**

| | | | | |
|------|----------------|----|----|----|
| Div | 13 | 29 | 67 | 83 |
| · by | | | | |
| 3 | $4\frac{1}{3}$ | | | |
| 4 | | | | |
| 5 | | | | |
| 10 | | | | |

The number you divided by will become the denominator the remainder will be numerator. E.g. $11 \div 2 = 5$ rem 1
1 goes on top and 2 goes on below

Ans: $5\frac{1}{2}$

❖ Write the answers as decimals fractions

| | | | | |
|--------|------|----|----|----|
| Div by | 23 | 45 | 67 | 93 |
| 2 | 11.2 | | | |
| 4 | | | | |
| 5 | | | | |
| 10 | | | | |

Remember:

$\frac{1}{4} = 0.25$

$\frac{1}{2} = 0.5$

$\frac{1}{5} = 0.2$

❖ Colour the correct one

Rough work

| S.No. | Problems | If your answer iscolour is..... | If your answer is....colour is..... |
|-------|----------------------------------|--------------------------------------|-------------------------------------|
| 1 | $\frac{2}{5} + \frac{1}{3}$ | $\frac{3}{8}$ Green | $\frac{11}{15}$ yellow |
| 2 | $\frac{3}{4} + \frac{1}{2}$ | $\frac{5}{4}$ Pink | $\frac{10}{8}$ purple |
| 3 | $\frac{4}{5} - \frac{3}{7}$ | $\frac{1}{2}$ Blue | $\frac{13}{35}$ Orange |
| 4 | $\frac{7}{8} - \frac{9}{16}$ | $\frac{-2}{8}$ Red | $\frac{5}{16}$ green |
| 5 | $\frac{3}{5} \times \frac{7}{6}$ | $\frac{21}{30}$ Purple | $\frac{7}{15}$ Blue |
| 6 | $\frac{6}{7} \times \frac{8}{9}$ | $\frac{63}{54}$ Green | $\frac{48}{63}$ pink |
| 7 | $\frac{5}{6} \div \frac{15}{22}$ | $\frac{75}{132}$ Yellow | $1\frac{2}{9}$ purple |
| 8 | $\frac{3}{7} \div \frac{5}{12}$ | $\frac{36}{35}$ Orange | $\frac{15}{84}$ green |
| 9 | $4\frac{1}{5} + 3\frac{2}{3}$ | $7\frac{13}{15}$ Pink | $7\frac{3}{8}$ |

Worksheet

1. In a competition two teams participated, one scored -17, 32 and -45. Second team scored 32, -45 and -17. Which team scored more? Can we say that we can add integers in any order.

2. Verify $(a+b)+c = a+(b+c)$ for the following

$$a = -138, b = -39, c = 57$$

3. (a) Add -5 and -16

(b) Subtract -42 from 50

4. A man travelled 60 km to the east of Delhi and then 100 km to the west of it. How far from Delhi was he finally?

5. Determine the integer whose product with -1 is

$$(a) -32 \quad (b) 0 \quad (c) 47$$

6) Complete the following statements.

- I. $297 \div \dots\dots\dots = 297$
- II. $(-85) \div \dots\dots\dots = -1$
- III. $(-405) \div \dots\dots\dots = 1$
- IV. $-97 \div \dots\dots\dots = 97$
- V. $\dots\dots\dots \div 1 = -97$
- VI. $30 \div \dots\dots\dots = -3$
- VII. $\dots\dots\dots \div 58 = -1$
- VIII. $\dots\dots\dots \div 6 = -5$

7)(i) An elevator descends into a mine at the rate of 6 metres per minute.

i) What will be its position after two hours?

ii) If it begins to descend from 15m above the ground, what will be its position after 45 minutes?

8) A tank is full of 2000 litres of water. Due to leakage the quantity changes by - 4 litres every hour. How long will it take to get empty.

9) Find the product using suitable property.

- i. $46 \times (-48) + (-48) \times (-36)$
- ii. $37 \times (-102)$
- iii. $725 \times (-55) + (-725) \times 65$

10) In a class test containing 15 questions, 4 marks are given for every correct answer and (-2) are given for every incorrect answers.

(i) Preeti gives only 5 answers correct. What will be her score?

(ii) Radhika scored 24 marks. She has got 9 correct questions. How many questions has she attempted incorrectly?

11) A container contains temperature of water 80°C after every 10 minutes, the change in temperature is -4°C . After how much time will the temperature of water be 20°C ?

12) Simplify: (i) $\frac{5}{9} - \frac{7}{12} + \frac{1}{2}$ (ii) $3\frac{1}{5} + 2\frac{1}{10} - 1\frac{1}{2} - \frac{1}{4}$

(iii) $2\frac{1}{4} \times 1\frac{1}{2}$ (iv) $5\frac{1}{6} \div 3\frac{1}{3}$

13) By what number should $2\frac{3}{5}$ be multiplied to get $1\frac{6}{7}$?

14) By what number should $1\frac{1}{2}$ be divided to get $\frac{2}{3}$?

15) There are 42 students in a class and $\frac{5}{7}$ of students are boys. Find the number of girls in the class.

16) Sumi earns 12000 per month and spend $\frac{7}{8}$ her income in and rest are deposited by her income in bank. How much money did she deposit in bank in a year?

17) A rope of length $13\frac{1}{2}$ m has been divided into 9 equal parts. What is the length of five equal parts?

18) The product of two number is $15\frac{5}{6}$. If one of the number is $6\frac{1}{3}$, Find the other number.