NAME: ..........................................................      SEC:…….

❖ **Positive and Negative numbers**

**Complete the difference table**

**ROUGH WORK**

| 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 | | | | |

❖ *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**

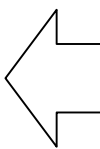| Div. by | 13 | 29 | 67 | 83 |
|---|---|---|---|---|
| 3 | $4\frac{1}{3}$ | | | |
| 4 | | | | |
| 5 | | | | |
| 10 | | | | |
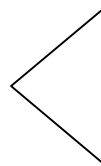
The number you divided by will become the denominator the remainder will be numerator. E.g. 11÷2=5 rem 1
1 goes on top and 2 goes on below

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

❖ **Write the answers as decimals fractions**

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

❖ **Colour the correct one**

**ROUGH WORK**

| S.No. | Problems | If your answer is ....colour 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 | $7\frac{3}{8}$ |
| 10 | $2\frac{3}{10} - 1\frac{2}{5}$ | $1\frac{1}{5}$  Blue | $\frac{9}{10}$  red |

# Worksheet

| | |
|---|---|
| 1) | Write down a pair of integers whose<br>(i) Sum is -3      (ii) Difference is -5      (iii) difference is 2      (iv) sum is 0 |
| 2) | Write a pair of integers whose difference gives (i) a negative integer (ii) an integer smaller than both the integers (iii) an integer greater than both the integers |
| 3) | In a competition two teams participated, one scored -17, 32 and -45. Second team scored 32, -45 and -17. Which team score more? Can we say that we can add integers in any order. |
| 4) | Evaluate –x (or additive inverse of x) from the following<br>(i) x = + 6, (ii) x = -5a (iii) x = -7 - 12 |
| 5) | Verify (a+b) + c = a + (b+c) for following<br>a = -138, b = -39, c = 57 |
| 6) | (a) Add -5 and -16 (b) Subtract – 42 from 50. |
| 7) | 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? |
| 8) | Determine the integer whose product with -1 is<br>(i) -32      (ii) 0      (iii) 47 |
| 9) | Verify the following :-<br>(-30) x [13 x (-3)] = [(-30) x 13] + [(-30) x (-3)] |
| 10) | Evaluate :- (i) (-53) ÷ [(-50)+(-3)]<br>            (ii) [(-18)÷(-6)] ÷ [(-17) – (-16)] |
| 11) | Complete the following statement.<br>(i) 297 ÷ _____ = 297          (ii) (-85) ÷ _____ = -1<br><br>(iii) (-405) ÷ _____ = 1         (iv) -97 ÷ _____ = 97<br><br>(v) _____ ÷ 1 = -97           (vi) 30 ÷ _____ = -3<br><br>(vii) _____ ÷ 58 = -1          (viii) _____ ÷ 6 = -5 |
| 12) | The temperature of Delhi which was $42^{o}C$ fell by $2^{o}C$ each day for a week. What is the temperature after whole week. |
| 13) | Verify that a ÷ (b+c) ≠ (a ÷ b) + (a ÷ c) if a = 15, b = -3 and c = 1 |

| | |
|---|---|
| 14) | An elevator descends into a mine at the rate of 6 metres per minute. (i) What will be its position after two hours?<br>(ii) If it begins to its descend from 15m above the ground, what will be its position after 45 minutes. |
| 15) | 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? |
| 16) | Find the product using suitable property.<br>(i)    46 x (-48) + (-48) x (-36)<br>(ii)    -37 x 102<br>(iii)    725 x (-55) + (-725) x 65<br>(iv)    -67 x (-19) + 67<br>(v)    16 x 39 x (-25) |
| 17) | In a class test containing 15 questions, 4 marks are given for every correct answer and (-2) marks are given for every incorrect answer.<br>Preeti gives only 5 answers correct. What will be her score? |
| 18) | In a class test (+5) marks are given for every correct answer and (-2) marks are given for every incorrect answer and no marks for not attempting any question.<br>(i) Radhika scored 20 marks. If she has got 12 correct questions. How many questions has she attempted incorrectly?<br>(ii) Mohini scores – 5 marks in this test though she has got 7 correct answers. How many questions has she attempted incorrectly?<br>(iii) Rakesh scores 18 marks by attempting 16 questions. How many questions has he attempted correctly and how many questions he attempted incorrectly? |
| 19) | A container contains temperature of water $80^{\circ}C$ After every 10 minutes, the change in temp. is $-4^{\circ}C$. After how much time will the temperature of water be $20^{\circ}C$? |
| 20) | The temperature of place rises from $-3^{\circ}C$ to $6^{\circ}C$.<br>(i) By how many degrees did the temperature rise?<br>(ii) If in the afternoon the temperature then fell by seven degrees from $6^{\circ}C$. What was temperature at the end of the afternoon. |

1. 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) $1\frac{3}{5} \div \frac{2}{3}$

2. By what no. should $2\frac{3}{5}$ be multiplied to get $1\frac{6}{7}$ ?

3. By what no. should $1\frac{1}{2}$ be divided to get $\frac{2}{3}$ ?

4. Nine boards are stacked on the top of each other. The thickness of each board is $3\frac{2}{3}$ cm. How high is the stack?

5. Amit's weight 35 kg. His sister kavita's weight is $\frac{3}{5}$ of Amit's weight. How much does Kavita's weight?

6. How many pieces of ply wood each 0.35 cm thick are required to make a pile 1.89 m high?

7. There are 42 students in a class and 5/7 of students are boys . Find the number of girls in a class.

8. There are 42 students in a class. 3/4 of the boys and 2/3 of the girls travel to school by bus. The total numbers of boys and girls who come to school by bus is 30. How many boys are there in the class? How many girls come to school by bus?

9. Summi earns 12000 per month and spend 7/8 her income in bank and rest are deposited by her income in bank. How much money did he deposit in bank in a year?

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

11.The product of two number is $15\frac{5}{6}$. If one of the no. is $6\frac{1}{3}$. Find the other fraction.

12. 2 litre of milk was distributed among student of class 7. If each student got $\frac{2}{5}$ litre of milk. How many students are in class 7th .

13. Find the difference between $\frac{40}{7}$ and $-\frac{30}{14}$.

14. John can walk 5Km in one hour. How much distance will he cover in $3\frac{1}{2}$ hours?