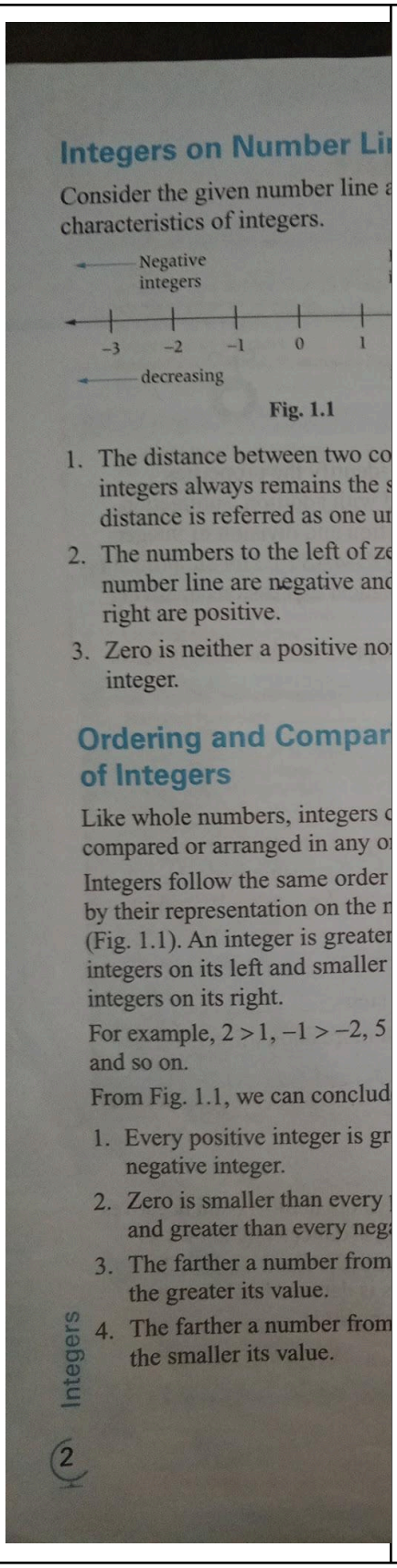
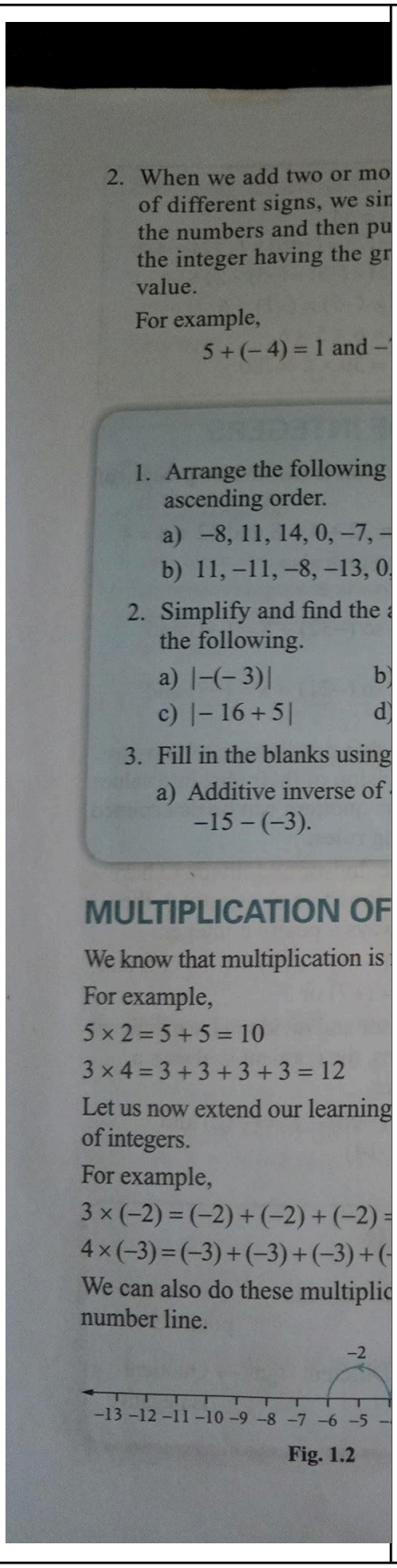
Teachers Name: S.B. Meher
Sub: Maths
Class: 7th(Rose)

S. N.	Date	Lesson Name and Topic	CW Pages	Home Work
01	02-04-2025	**Class not taken due to craft event.**	No class	No HW given
02	03-04-2025	**Class not taken due to sports event.**	No class	No HW given

03	04-04-2025	**Lesson-1** **Integers**	 **Integers on Number Li** Consider the given number line a characteristics of integers. Negative integers −3 −2 −1 0 1 decreasing **Fig. 1.1** 1. The distance between two co integers always remains the s distance is referred as one ur 2. The numbers to the left of ze number line are negative and right are positive. 3. Zero is neither a positive no integer. **Ordering and Compar of Integers** Like whole numbers, integers c compared or arranged in any o Integers follow the same order by their representation on the r (Fig. 1.1). An integer is greater integers on its left and smaller integers on its right. For example, $2 > 1$, $-1 > -2$, 5 and so on. From Fig. 1.1, we can conclud 1. Every positive integer is gr negative integer. 2. Zero is smaller than every and greater than every nega 3. The farther a number from the greater its value. 4. The farther a number from the smaller its value. Integers 2	1- What is called Integers? 2- Find the absolute value of -3 and 8.

04	05-04-2025	**Lesson-1** **Integers**		Ex- 1.1 No.2 (d) No.4 (c) (d)

2. When we add two or mo
of different signs, we sir
the numbers and then pu
the integer having the gr
value.

For example,

$5 + (-4) = 1$ and $-$

1. Arrange the following
ascending order.
a) $-8, 11, 14, 0, -7, -$
b) $11, -11, -8, -13, 0,$
2. Simplify and find the
the following.
a) $|-(-3)|$ b)
c) $|-16+5|$ d)
3. Fill in the blanks using
a) Additive inverse of
$-15-(-3)$.

MULTIPLICATION OF

We know that multiplication is

For example,

$5 \times 2 = 5 + 5 = 10$

$3 \times 4 = 3 + 3 + 3 + 3 = 12$

Let us now extend our learning
of integers.

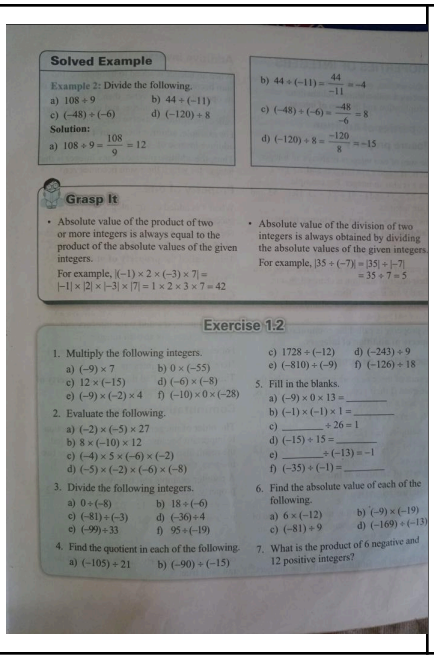
For example,

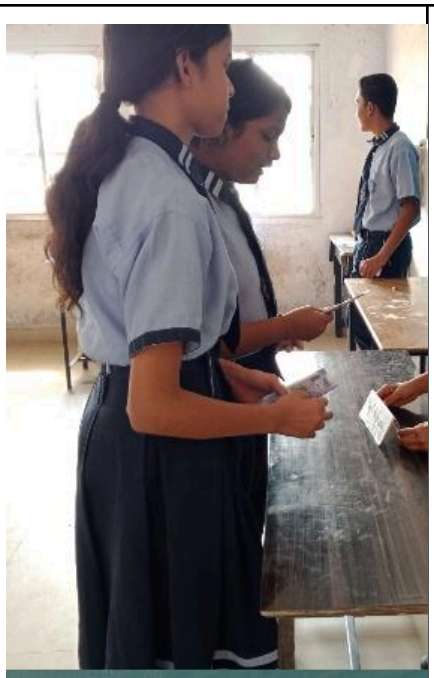
$3 \times (-2) = (-2) + (-2) + (-2) =$

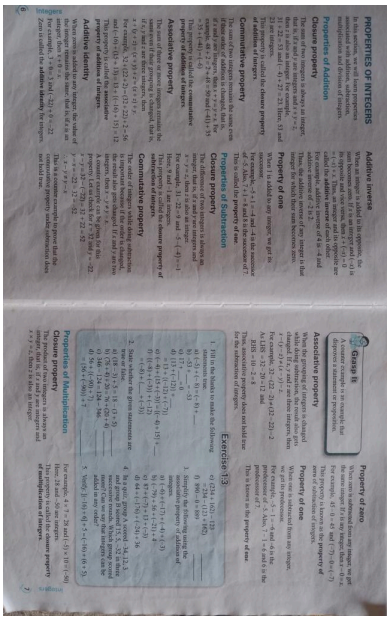
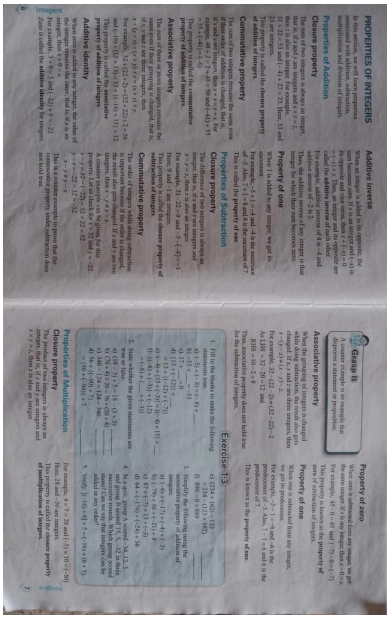
$4 \times (-3) = (-3) + (-3) + (-3) + (-$

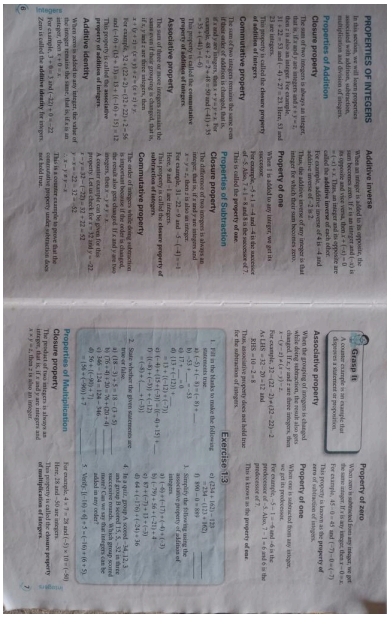
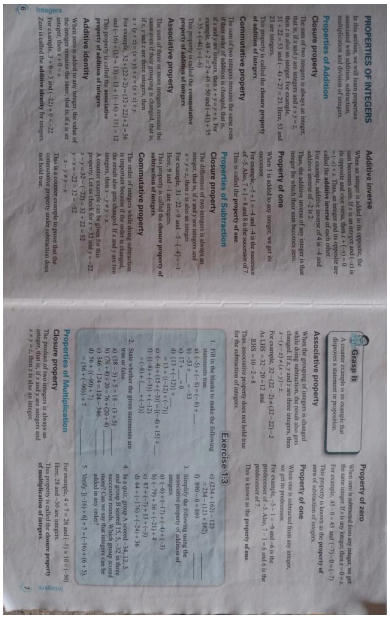
We can also do these multiplic
number line.

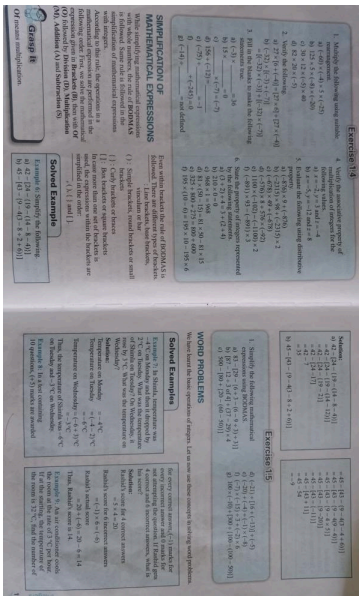
Fig. 1.2

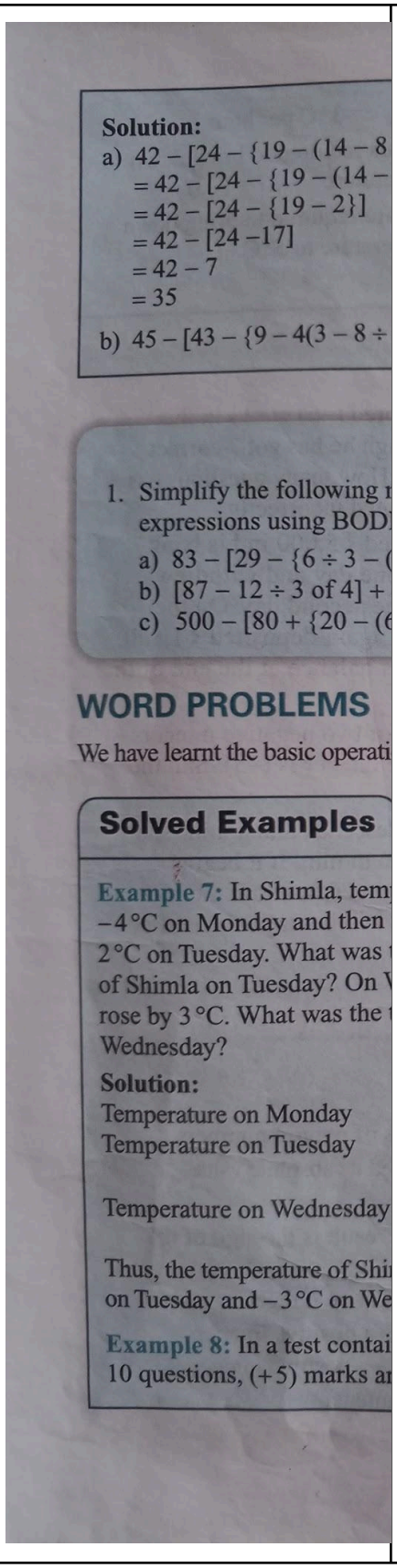
05	07-04-2025	**Lesson-1** **Integers**	 **Solved Example** Example 2: Divide the following. a) $108 \div 9$ b) $44 \div (-11)$ c) $(-48) \div (-6)$ d) $(-120) \div 8$ Solution: a) $108 \div 9 = \frac{108}{9} = 12$ b) $44 \div (-11) = \frac{44}{-11} = -4$ c) $(-48) \div (-6) = \frac{-48}{-6} = 8$ d) $(-120) \div 8 = \frac{-120}{8} = -15$ **Grasp It** • Absolute value of the product of two or more integers is always equal to the product of the absolute values of the given integers. For example, $\|(-1) \times 2 \times (-3) \times 7\| = \|-1\| \times \|2\| \times \|-3\| \times \|7\| = 1 \times 2 \times 3 \times 7 = 42$ • Absolute value of the division of two integers is always obtained by dividing the absolute values of the given integers. For example, $\|35 \div (-7)\| = \|35\| \div \|-7\| = 35 \div 7 = 5$ **Exercise 1.2** 1. Multiply the following integers. a) $(-9) \times 7$ b) $0 \times (-55)$ c) $12 \times (-15)$ d) $(-6) \times (-8)$ e) $(-9) \times (-2) \times 4$ f) $(-10) \times 0 \times (-28)$ 2. Evaluate the following. a) $(-2) \times (-5) \times 27$ b) $8 \times (-10) \times 12$ c) $(-4) \times 5 \times (-6) \times (-2)$ d) $(-5) \times (-2) \times (-6) \times (-8)$ 3. Divide the following integers. a) $0 \div (-8)$ b) $18 \div (-6)$ c) $(-81) \div (-3)$ d) $(-36) \div 4$ e) $(-99) \div 33$ f) $95 \div (-19)$ 4. Find the quotient in each of the following. a) $(-105) \div 21$ b) $(-90) \div (-15)$ c) $1728 \div (-12)$ d) $(-243) \div 9$ e) $(-810) \div (-9)$ f) $(-126) \div 18$ 5. Fill in the blanks. a) $(-9) \times 0 \times 13 =$ _____ b) $(-1) \times (-1) \times 1 =$ _____ c) _____ $\div 26 = 1$ d) $(-15) \div 15 =$ _____ e) _____ $\div (-13) = -1$ f) $(-35) \div (-1) =$ _____ 6. Find the absolute value of each of the following. a) $6 \times (-12)$ b) $(-9) \times (-19)$ c) $(-81) \div 9$ d) $(-169) \div (-13)$ 7. What is the product of 6 negative and 12 positive integers?	Ex- 1.2 No.2 (c)(d) No.3 (c) (d) No.6 (b)

06	08-04-2025	**Lesson-1 Integers (Activity- Understanding Banking System, Credit, Debit)**	  	Ex- 1.2 No.2 (c)(d) No.3 (c) (d) No.6 (b)

07	09-04-2025	**Class not taken due to music event.**	No class	**<u>Ex- 1.2</u>** **No.2** (c)(d) **No.3** (c) (d) **No.6** (b)
08	11-04-2025	**Lesson-1** **Integers**		**Solve the following** **No.1** (-4) +[15+(-3)] **No.2** [(-16)+6] + 5 **No.3** 12+10+(-3)+(-11)+12
09	12-04-2025	**Lesson-1** **Integers**		**Solve the following by using distributive property** **a)** 3×(12+4) **b)**(-4)×7 - (-4)×8

10	15-04-2025	**Lesson-1** **Integers**		**Exercise 1.3** **No.5** all no. **Exercise1.4** **No.4** (c) (d)
11	16-04-2025	**Lesson-1** **Integers**		**Exercise1.4** **No.2** (b) **No.4** (b) **No.5** (c) (e)

12	17-04-2025	**Lesson-1** **Integers**		**Exercise1.5** **No.1 (b)** and **(c)**
13	19-04-2025	**Lesson-1** **Integers** (Class not taken due to sport events)	No Class	**Exercise1.5** **No.1 (b)** and **(c)**

14	21-04-2025	**Lesson-1** **Integers**		**Exercise1.5** **No.1 (f)** **Workout** **No 8 (c)**

Solution:

a) $42 - [24 - \{19 - (14 - 8$
$= 42 - [24 - \{19 - (14 -$
$= 42 - [24 - \{19 - 2\}]$
$= 42 - [24 - 17]$
$= 42 - 7$
$= 35$

b) $45 - [43 - \{9 - 4(3 - 8 \div$

1. Simplify the following
expressions using BOD
a) $83 - [29 - \{6 \div 3 - ($
b) $[87 - 12 \div 3 \text{ of } 4] +$
c) $500 - [80 + \{20 - ($

WORD PROBLEMS

We have learnt the basic operati

Solved Examples

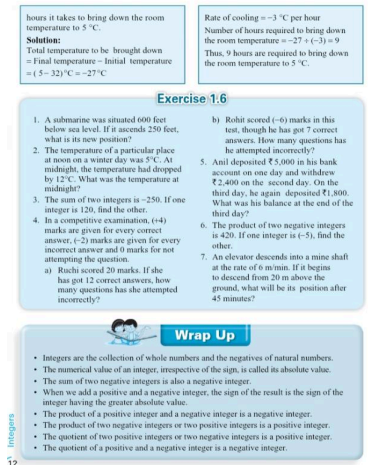
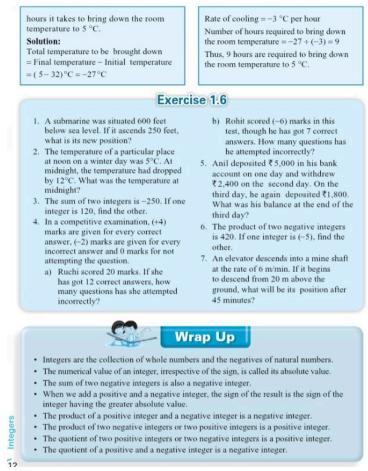
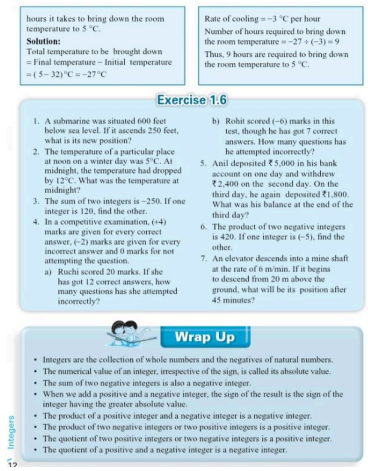
Example 7: In Shimla, tem
$-4\,^{\circ}C$ on Monday and then
$2\,^{\circ}C$ on Tuesday. What was
of Shimla on Tuesday? On
rose by $3\,^{\circ}C$. What was the
Wednesday?

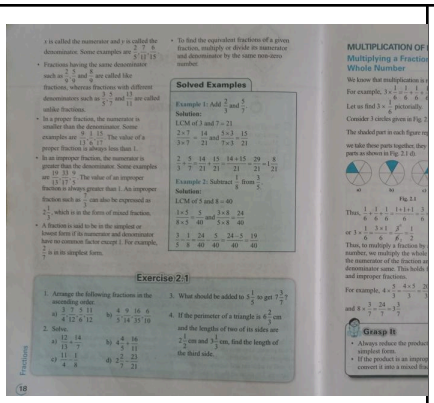
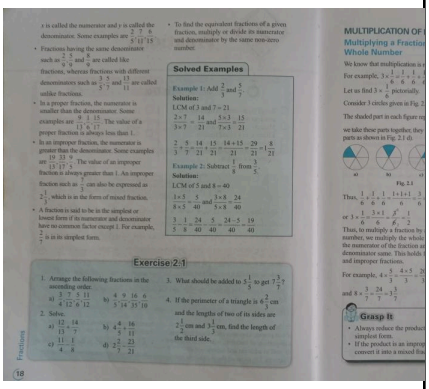
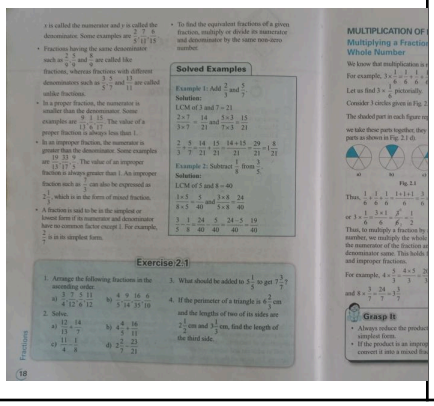
Solution:
Temperature on Monday
Temperature on Tuesday

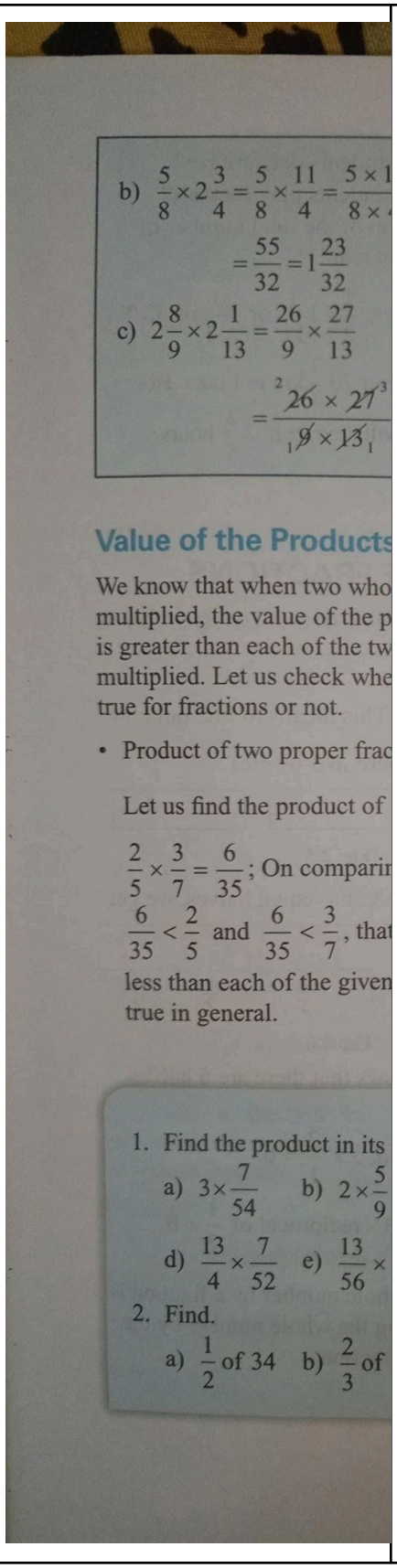
Temperature on Wednesday

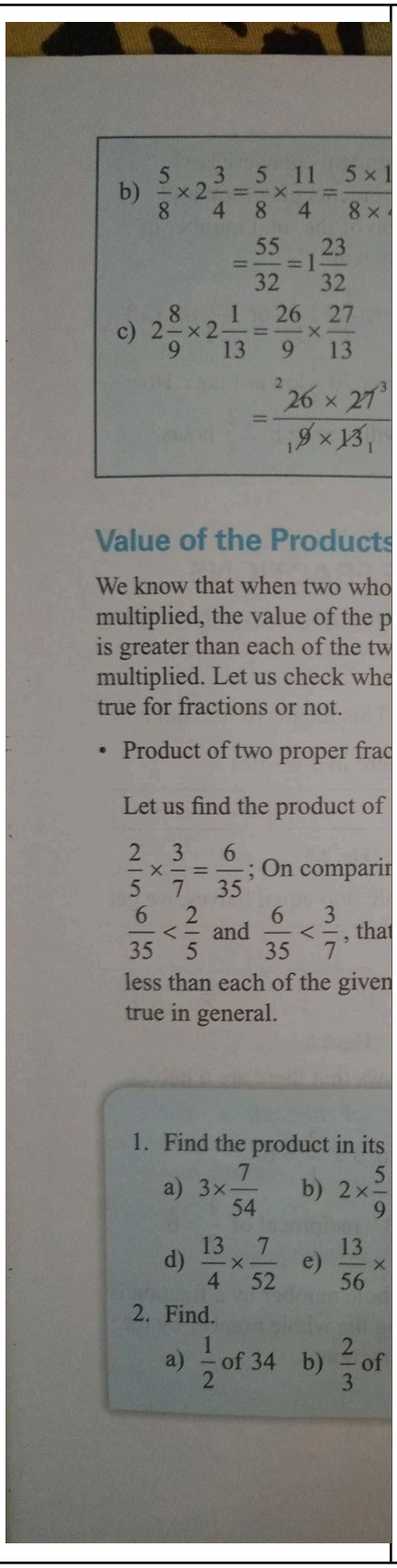
Thus, the temperature of Shi
on Tuesday and $-3\,^{\circ}C$ on We

Example 8: In a test contai
10 questions, (+5) marks a

15	22-04-2025	**Lesson-1** **Integers**		**<u>Exercise1.6</u>** **No.4** (b) **No.6**
16	23-04-2025	**Lesson-1** **Integers**		**<u>Workout</u>** **No.1** **No.4**
17	24-04-2025	**Lesson-1** **Integers**		**Summer Holiday HW.**

18	18-06-2025	**Lesson-2** **Fractions**		**Solve the following** 1) 2/7+3/7 2) ½+2/4+3/5
19	20-06-2025	**Lesson-2** **Fractions**		**Exercise 2.1** No.1 (b) No.2 (b)
20	23-06-2025	**Lesson-2** **Fractions**		**Solve the following** (a) ½+⅔+¾ (b) 21/5- 10/20

21	24-06-2025	**Lesson-2** **Fractions**		**Exercise 2.2** **No.1 (d) (e)** **No.2 (c) (d)**

22	25-06-2025	**Lesson-2** **Fractions**		**Exercise 2.2** **No.3 (d) (e)** **No.6**

b) $\frac{5}{8} \times 2\frac{3}{4} = \frac{5}{8} \times \frac{11}{4} = \frac{5 \times 1}{8 \times}$

$= \frac{55}{32} = 1\frac{23}{32}$

c) $2\frac{8}{9} \times 2\frac{1}{13} = \frac{26}{9} \times \frac{27}{13}$

$= \frac{{}^{2}\cancel{26} \times \cancel{27}^{3}}{{}_{1}\cancel{9} \times \cancel{13}_{1}}$

Value of the Products

We know that when two who
multiplied, the value of the p
is greater than each of the tw
multiplied. Let us check whe
true for fractions or not.

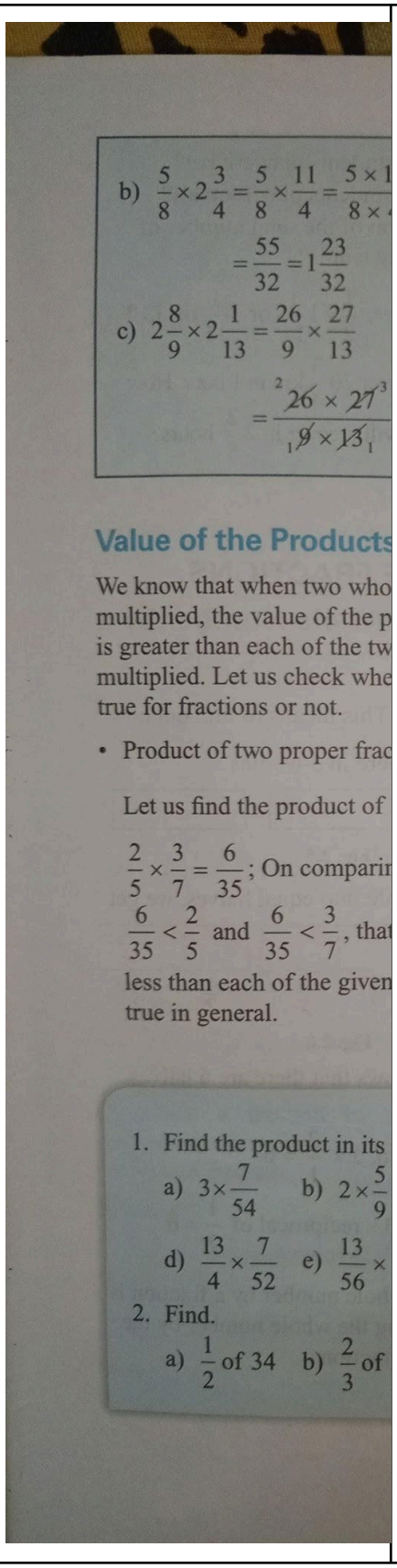
- Product of two proper frac

Let us find the product of

$\frac{2}{5} \times \frac{3}{7} = \frac{6}{35}$; On comparir

$\frac{6}{35} < \frac{2}{5}$ and $\frac{6}{35} < \frac{3}{7}$, that
less than each of the given
true in general.

1. Find the product in its
   a) $3 \times \frac{7}{54}$ b) $2 \times \frac{5}{9}$
   d) $\frac{13}{4} \times \frac{7}{52}$ e) $\frac{13}{56} \times$
2. Find.
   a) $\frac{1}{2}$ of 34 b) $\frac{2}{3}$ of

23	26-06-2025	**Lesson-2** **Fractions**		**Solve the following** 1) 2/5+3/5×1/5 2) 3/10+5/2×2/5

b) $\frac{5}{8} \times 2\frac{3}{4} = \frac{5}{8} \times \frac{11}{4} = \frac{5 \times 1}{8 \times}$

$= \frac{55}{32} = 1\frac{23}{32}$

c) $2\frac{8}{9} \times 2\frac{1}{13} = \frac{26}{9} \times \frac{27}{13}$

$= \frac{{}^{2}\cancel{26} \times \cancel{27}^{3}}{{}_{1}\cancel{9} \times \cancel{13}_{1}}$

Value of the Products

We know that when two who
multiplied, the value of the p
is greater than each of the tw
multiplied. Let us check whe
true for fractions or not.

- Product of two proper frac

Let us find the product of

$\frac{2}{5} \times \frac{3}{7} = \frac{6}{35}$; On comparir

$\frac{6}{35} < \frac{2}{5}$ and $\frac{6}{35} < \frac{3}{7}$, that
less than each of the given
true in general.

1. Find the product in its
   a) $3 \times \frac{7}{54}$ b) $2 \times \frac{5}{9}$
   d) $\frac{13}{4} \times \frac{7}{52}$ e) $\frac{13}{56} \times$
2. Find.
   a) $\frac{1}{2}$ of 34 b) $\frac{2}{3}$ of

				a.