

Answers

Theme 2: What Helps Us Survive Lesson-3: HCF and LCM

Main Coursebook

Kinaesthetic

Accept all the relevant responses.

Auditory

21

Pictorial

- 3×4
12 - 1, 2, 3, 4, 6, 12
- 2×6
12 - 1, 2, 3, 4, 6, 12

Interacting better

Accept all the relevant responses.

Understanding better (page no - 33)

- no 2. yes 3. no
- 1, 3, 5, 15
 - 1, 2, 3, 5, 6, 10, 15, 30
 - 1, 2, 4, 5, 8, 10, 20, 40
 - 1, 5, 11, 55
 - 1, 2, 4, 5, 10, 20, 25, 50, 100
 - 1, 5, 25, 125
- 6, 12, 18, 24, 30 b. 12, 24, 36, 48, 60
 - 15, 30, 45, 60, 75 d. 17, 34, 51, 68, 85
 - 25, 50, 75, 100, 125 f. 30, 60, 90, 120, 150
- 3.

Number	2	3	4	5	6	8	9	10	11	12	15
2,625	x	✓	x	✓	x	x	x	x	x	x	✓
2,121	x	✓	x	x	x	x	x	x	x	x	x
18,018	✓	✓	x	x	✓	x	✓	x	✓	x	x
36,000	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
1,00,406	✓	x	x	x	x	x	x	x	x	x	x

Understanding better (page no - 34)

- no 2. yes
- false b. false c. true
 - true
- 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97
- 29, 31 and 71, 73 are twin primes.

Understanding better (page no - 35)

- no
- no
- no
- 2×31 b. 7×13
 - $2 \times 2 \times 3 \times 3 \times 3$ d. $2 \times 2 \times 2 \times 2 \times 3 \times 3$
 - 13×13
- $2 \times 2 \times 2 \times 2 \times 3$ b. $3 \times 3 \times 7$
 - 3×29 d. $2 \times 2 \times 2 \times 3 \times 5$
 - $2 \times 2 \times 47$
- 13 b. 18 c. 1 d. 8
- 7 b. 21 c. 5 d. 25

- 56 b. 60 c. 36 d. 192
- 225 b. 63 c. 6930 d. 2160
- 15 b. 300 c. 20 d. 6

Solving better

- HCF - 1
LCN - 6
Product of numbers - 6
Product of HCF and LCM - 6
- HCF - 1
LCM - 35
Product of the numbers - 35
Product of HCF and LCM - 35
- HCF - 2
LCM - 60
Product of numbers - 120
Product of HCF and LCM - 120
- HCF - 5
LCM - 60
Product of numbers - 300
Product of HCF and LCM - 300
- HCF - 5
LCM - 150
Product of numbers - 750
Product of HCF and LCM - 750

Learning better

- b 2. c 3. d 4. d 5. d
- 1, 2, 5 and 10 2. 1, 6 and 12
 - 3 4. 20
 - 1 and 5
- 5 2. 7 3. 6 4. 7
 - 5 6. 48
- 5 2. 12

Thinking better

106

Choosing better

- Inform her parents about the warning.

Students' Worksheets

Worksheet 1

- false 2. true 3. true 4. false 5. false
- 1, 3, 5, 15 2. 1, 5, 25
 - 1, 2, 3, 5, 6, 15, 30 4. 1, 3, 17, 51
 - 1, 5, 13, 65
- 16, 24, 32, 40, 48 2. 24, 36, 48, 60, 72
 - 30, 45, 60, 75, 90 4. 50, 100, 150, 200
 - 70, 140, 280, 210

Worksheet 2

- true 2. true 3. true 4. true 5. false
- itself 2. 1 3. 1 4. 1 5. odd
- 2, 3, 5 2. 19, 38, 57
 - 7, 21, 35, 49, 63 4. 11, 31, 41, 61, 71
 - 5, 15

Worksheet 3

- A. 1. even 2. 3, 5 3. 2, 3
4. factor 5. 0, 10
- B. 1. Numbers with only two factors – 1 and the number itself, are called prime numbers.
2. Two numbers that have only 1 as a common factor are called co-prime numbers or co-primes.
3. Numbers with three or more factors are called composite numbers.
4. 1
5. multiply it by 1, 2, 3, and so on.
- C. 1. $2 \times 2 \times 2 \times 3$ 2. $2 \times 3 \times 5$
3. 5×7 4. $3 \times 3 \times 5$
5. $2 \times 2 \times 2 \times 2 \times 5$ 6. $2 \times 2 \times 2 \times 2 \times 2 \times 3$

Book of Holistic Teaching

- A. match, match,
B. 1. Houses built with bricks and stones: - Found in hot or cold climates for insulation
C. Cyclones are strong storms with heavy winds and rain. Severe ones can damage infrastructure and disrupt daily life, as Cyclone Amphan in 2020 showed.

Book of Project Ideas

Making better

Accept all the relevant responses.