

Answers

Theme 8: How Does Technology Work? Lesson-13: Metric Measure

Main Coursebook

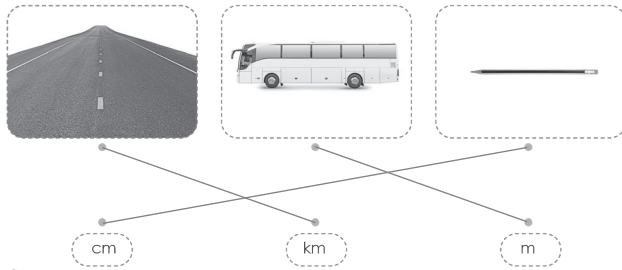
Kinaesthetic

Accept all relevant responses.

Auditory

1. 200 litres
2. 250 cm

Pictorial



Interacting better

Accept all the relevant responses.

1. a. 0.000022 km b. 0.43762 km
- c. 0.8735 km d. 643.42 km
- e. 0.637 km

Understanding better (page 140)

1. 1,00,000 cg 2. 1000 ml
2. a. 0.538 g b. 256.12 g
- c. 6,52,15,000 g d. 7.348 g

Understanding better (page 141)

1. 500 g 2. 500 ml 3. 250 m
3. a. 2,22,000 l b. 56,000 g c. 17,000 ml
4. a. 4 m 85 cm b. 3 kg 652 g c. 5 l 896 ml
5. a. 65,300 cm b. 56,000 g c. 17,000 ml
6. a. 590 m 173 cm b. 703 kg 814 g
- c. 197 l 875 ml
7. a. 2 m 60 cm b. 6 kg 390 g c. 737 l 870 ml
8. a. 106 m 73 cm b. 324 m 93 cm
- c. 304 kg 47 g d. 33 l 575 ml

Solving better

1. a. 1 m = 1000 mm b. 1 kg = 100 dag

- c. 3000 g = 3 kg d. 259 cm = 2 m 59 cm
- e. 8,005 m = 8 km 5 m
- f. 4,127 ml = 4 l 127 ml
- g. 1,050 g = 1 kg 50 g
- h. 13 l 54 ml = 13,054 ml

Learning better

- A. 1. d 2. d 3. c
4. a 5. c
- B. 1. b 2. a 3. e
4. c 5. d
- C. 1. 6.122 grams 2. 7045 metres
3. 130 centimetres
- D. 1. 41 kg 2. 59 km 100 m

Thinking better

No, Maria is incorrect. Her desk is 75 cm, which equals 0.75 m, not 7.5 m. She misplaced the decimal point.

Choosing better

- Politely ask for some snacks from your sibling.



Students' Worksheets

Worksheet 1

- A. 1. false 2. true 3. true
4. true 5. true
- B. 1. 40,000 cm 2. 2,50,000 g
3. 35,000 l 4. 610 mm
5. 25,000 mm
- C. 1. 7 kg 800 g 2. 6 l 900 ml
3. 4 km 900 m 4. 27 m 90 cm
5. 24 kg 367 g 6. 30 kg 405 g

Worksheet 2

- A. 1. true 2. false 3. false
4. true 5. true
- B. 1. 30 km 2. 36 kg 3. 21 l
4. 120 cm 5. 100 m

- C. 1. 400 g 2. 4 l
 3. 5 km 300 m 4. 10 m 3 cm
 5. 40 kg 100 g 6. 12m 03 cm

Worksheet 3

- A. 1. c 2. b 3. b
 4. d 5. b
 B. 1. 42 km 2. 65 m 3. 632 l
 4. 156 kg 5. 2520 km
 C. 1. d 2. c 3. a
 4. e 5. b

Book of Holistic Teaching

Developing better

A. English

Tehri Dam is higher than the Bhakra Nangal Dam by 34.5 m. The Bhakra Nangal Dam

is about 226 m in height. It is built on the Bhagirathi river and Bhakra Nangal Dam is built on the Satluj River. Find the height of Tehri Dam.
 260.5 m

B. Science

muscular force

C. Social studies

In 2023, Uttar Pradesh produced approximately **235 million tonnes (mt)** of sugarcane during the 2022-23 crushing season.

Book of Project Ideas

Making better

Accept all relevant responses.

Answers

Theme 8: How Does Technology Work? Lesson-14: Perimeter and Area

Main Coursebook

Kinaesthetic

Accept all relevant responses.

Auditory

16 m

Pictorial

1. 10 units 2. 6 units 3. 10 units
4. 6 units 5. 32 units

Interacting better

Accept all the relevant responses.

1. a. 36 cm b. 24 m c. 15 m
2. a. 14 cm b. 22 cm c. 36 cm d. 64 cm
3. a. 8 cm b. 28 cm c. 40 cm d. 96 cm

Understanding better (page 150)

1. Multiply the side by 4
2. Sum of twice of length and breadth
4. a. 360 m b. 198 m c. 88 cm d. 70 m
5. a. 6 sq. unit b. 12 sq. unit c. 8 sq. unit
6. a. figure C, 16 sq. unit
- b. figure A, 9 sq. unit
- c. 12 sq. unit

Understanding better (page 153)

1. 80 sq cm 2. 1 sq m
7. a. 36 sq. cm b. 81 sq. cm
- c. 48 sq. cm d. 60 sq. cm
8. a. 4500 sq. m b. 35 sq. cm
- c. 60 sq. cm d. 2700 sq cm

Solving better

1. a. Area = 6 sq. cm; Perimeter = 12 cm
- b. Area = 6 sq. cm; Perimeter = 14 cm
- c. Area = 8 sq. cm; Perimeter = 18 cm
- d. Area = 10 sq. cm; Perimeter = 18 cm

Learning better

- A. 1. a 2. c 3. c 4. c 5. d
- B. 1. c 2. d 3. e 4. a 5. b
- C. 1. 8 sq. cm 2. 11 sq. cm 3. 9 sq. cm
- D. 1. 360 m 2. 60 cm

Thinking better

24 cm

Choosing better

- Allow her to use his computer.

Students' Worksheets

Worksheet 1

- A. 1. false 2. true 3. false 4. false 5. true
- B. 1. rectangle 2. double 3. four times
4. one-fourth 5. four times
- C. 1. 17 cm 2. 16 cm 3. 22 cm
4. 24 cm 5. 26 cm 6. 24 cm

Worksheet 2

- A. 1. 4 2. side × side 3. sum
4. multiply 5. two
- B. 1. 17 cm 2. 13 cm 3. 18 cm
4. 16 cm 5. 17 cm
- C. 1. 3 2. 5 3. square
4. 4 5. 6

Worksheet 3

- A. 1. d 2. c 3. e 4. a 5. b
- B. 1. $4\left(\frac{1}{2}\right)$ sq cm 2. 8 sq cm
3. 6 sq cm 4. 7 sq cm
5. $4\left(\frac{1}{2}\right)$ sq cm
- C. 1. figure 2
2. figure 1 and figure 5
3. figure 1 and figure 5
4. $3\left(\frac{1}{2}\right)$ sq cm 5. $1\left(\frac{1}{2}\right)$ sq cm

Worksheet 4

- A. 1. 4 2. 4 × side
3. a 4. three
5. Area of a rectangle = Length × Breadth
- B. 1. 32 cm 2. 22 cm 3. 22 cm
4. 44 cm 5. 25 m 6. 28 m
- C. 1. 15 sq. unit 2. 9 sq. unit
3. 10 sq. unit 4. 7 sq. unit
5. 11 sq. unit 6. 12 sq unit

Book of Holistic Teaching

Developing better

A. English

1. price 2. quite

B. Science

The total area of 30 solar panels (30 m²) helps capture more sunlight, making converting sunlight into electricity more efficient.

C. Social studies

The Dhol-Sadiya Bridge improves transportation by providing a direct link, reducing travel time and enhancing trade and communication between Assam and Arunachal Pradesh.

Book of Project Ideas

Making better

Accept all relevant responses.