

Answers

Theme 8: What Makes Us Think?

Lesson-11: Measurement

Main Coursebook

Kinaesthetic

Accept all the relevant responses.

Auditory

1. 15 cm
2. 10 cm

Pictorial

Accept all the relevant responses.

Interacting better

Accept all the relevant responses.

Pictorial

1. a. 800 cm b. 1418 cm
c. 2305 cm d. 3103 cm
2. a. 6000 m b. 8467 m
c. 5911 m d. 6028 m
3. a. 3 m 0 cm b. 6 m 28 cm
c. 15 m 15 cm d. 42 m 7 cm

Understanding better (page no - 135)

1. 100 mm
2. 1000 m
4. a. 2 km 0 m b. 3 km 278 m
c. 5 km 187 m d. 7 km 255 m
5. a. 44 m 43 cm b. 66 m 48 cm
c. 100 m 53 cm
6. a. 102 km 811 m b. 83 km 614 m
c. 70 km 605 m
7. a. 15 m 9 cm b. 15 m 77 cm
c. 7 m 79 cm d. 53 m 77 cm
8. a. 1 km 766 m b. 12 km 561 m
c. 5 km 648 m d. 11 km 937 m
9. a. 31 m 40 cm
b. Rohit jumped higher by 72 cm.
10. a. 9000 g b. 2 kg = 2000 g
c. 1937 g d. 6408 g

Understanding better (page no - 138)

1. 1,000 g
2. 10 mg
11. a. 2 kg b. 3 kg 9 g
c. 4 kg 682 g d. 6 kg
12. a. 36 kg 840 g b. 49 kg 393 g
c. 64 kg 316 g d. 138 kg 55 g
13. a. 11 kg 247 g b. 26 kg 980 g
c. 15 kg 693 g d. 19 kg 836 g
14. a. Jagdish's total weight - 16 kg 595 g
b. Who weighs less - Ash weighs 9 kg 148 g less than Rohit.

15. a. 6 m = 6000 millilitres
b. 4711 m = 4711000 millilitres
c. 8377 m = 8377000 millilitres
d. 9270 m = 9270000 millilitres
16. a. 1867 m = 1 litre 867 millilitres
b. 2000 m = 2 litres 0 millilitres
c. 5054 m = 5 litres 54 millilitres
d. 5105 m = 5 litres 105 millilitres
17. a. 17,486 mL + 52,799 mL = 70,285 mL
b. 43,455 mL + 25,166 mL = 68,621 mL
18. a. 56,350 mL - 35,196 mL = 21,154 mL
b. 78,430 mL - 55,295 mL = 23,135 mL
c. 85,667 mL - 57,865 mL = 27,802 mL
d. 93,734 mL - 84,782 mL = 8,952 mL
19. a. 3,150 ml b. 1,000 ml
c. 164,356 ml d. 525 ml

Solving better

1. a. 300 g + 750 g = 1050 g
b. 2051 m = 2 km 51 m
c. 204 cm = 2 m 4 cm
d. 1005 m = 1 L 5 mL
e. 2 packets of 500 ml milk make 1 litre of milk.
2. a. centimetres b. metres
c. millilitres d. metres

Learning better

- A. 1. c 2. d 3. a 4. a 5. b
- B. 1. 14 m = 14 × 100 cm = 1400 cm
2. 3000 m = 3000 ÷ 1000 km = 3 km
3. 6 kg = 6 × 1000 g = 6000 g
4. 9000 mL = 9000 ÷ 1000 L = 9 L
5. 18 m 47 cm = 18 × 100 cm + 47 cm
= 1800 cm + 47 cm = 1847 cm
6. 4208 m = 4208 ÷ 1000 km = 4 km 208 m
7. 3010 g = 3010 ÷ 1000 kg = 3 kg 10 g
8. 5401 mL = 5 × 1000 mL + 401 mL = 5000 mL + 401 mL = 5401 mL
- C. 1. a. 7 m = 700 cm
b. 42 m = 4200 cm
c. 7 m 53 cm = 753 cm
d. 8 m 61 cm = 861 cm
2. b. 382 cm = 3 m 82 cm
c. 4053 cm = 40 m 53 cm
d. 2471 cm = 24 m 71 cm (or 25 m 21 cm)
3. a. 8 km = 8000 m
b. 2 km = 2000 m
c. 6 km 135 m = 6135 m
d. 3 km 46 m = 3046 m
4. a. 2000 m = 2 km
b. 2300 m = 2 km 300 m
c. 5030 m = 5 km 30 m
d. 7879 m = 7 km 879 m
5. a. 7 kg = 7000 g

- b. $2\text{ kg } 314\text{ g} = 2314\text{ g}$
 c. $3\text{ kg } 871\text{ g} = 3871\text{ g}$
 d. $8\text{ kg } 5\text{ g} = 8005\text{ g}$
6. a. $3415\text{ g} = 3\text{ kg } 415\text{ g}$
 b. $4000\text{ g} = 4\text{ kg}$
 c. $4502\text{ g} = 4\text{ kg } 502\text{ g}$
 d. $8006\text{ g} = 8\text{ kg } 6\text{ g}$
7. a. $5\text{ L} = 5000\text{ mL}$
 b. $3\text{ L } 150\text{ mL} = 3150\text{ mL}$
 c. $5\text{ L } 270\text{ mL} = 5270\text{ mL}$
 d. $7\text{ L } 3\text{ mL} = 703\text{ mL}$
8. a. $1000\text{ mL} = 1\text{ L}$
 b. $2315\text{ mL} = 2\text{ L } 315\text{ mL}$
 c. $5043\text{ mL} = 5\text{ L } 43\text{ mL}$
 d. $9408\text{ mL} = 9\text{ L } 408\text{ mL}$
- D. 1. $60\text{ kg } 198\text{ g}$ 2. $68\text{ L } 925\text{ mL}$
 3. $7\text{ m } 901\text{ cm}$ 4. $75\text{ km } 614\text{ m}$
 5. $99\text{ kg } 922\text{ g}$ 6. $68\text{ L } 774\text{ mL}$
- E. 1. $1\text{ kg } 599\text{ g}$ 2. $21\text{ km } 551\text{ m}$
 3. $4\text{ m } 492\text{ cm}$ 4. $9\text{ L } 309\text{ mL}$
 5. $17\text{ kg } 419\text{ g}$ 6. $4\text{ L } 865\text{ mL}$
- F. 1. $81\text{ m } 12\text{ cm}$ 2. $83\text{ m } 47\text{ cm}$
 3. $95\text{ km } 613\text{ m}$ 4. $97\text{ km } 186\text{ m}$
 5. $82\text{ kg } 918\text{ g}$ 6. $66\text{ kg } 166\text{ g}$
 7. $81\text{ L } 206\text{ mL}$ 8. $78\text{ L } 325\text{ mL}$
- G. 1. $29\text{ m } 93\text{ cm}$ 2. $24\text{ kg } 895\text{ g}$
 3. $1\text{ kg } 699\text{ g}$ 4. $16\text{ m } 99\text{ cm}$
 5. $61\text{ L } 109\text{ mL}$ 6. $54\text{ L } 464\text{ mL}$
- H. 1. Total length of the string = $12\text{ m } 68\text{ cm} + 15\text{ m } 75\text{ cm} = 28\text{ m } 43\text{ cm}$
 2. Joseph has grown = $1\text{ m } 72\text{ cm} - 82\text{ cm} = 90\text{ cm}$
 3. Sohan must climb = $4879\text{ m} - 2259\text{ m} = 2620\text{ m}$
 4. Total weight Uma must carry = $14\text{ kg } 750\text{ g} + 11\text{ kg } 525\text{ g} = 26\text{ kg } 275\text{ g}$
 5. Weight of the gas in the cylinder = $29\text{ kg } 500\text{ g} - 14\text{ kg } 200\text{ g} = 15\text{ kg } 300\text{ g}$
 6. Total water Harsh can store = $10\text{ L } 634\text{ mL} + 17\text{ L } 735\text{ mL} = 28\text{ L } 369\text{ mL}$
 7. Remaining capacity of the bucket = $10\text{ L} - 7\text{ L } 870\text{ mL} = 2\text{ L } 130\text{ mL}$

Thinking better

Think and answer.

1. A door frame
2. A standard ruler
3. A football goalpost
4. A typical bookshelf height
5. A long broomstick
2. The length of a stick of noodle is usually about 30 cm before boiling. After boiling, the noodle's length may increase as it absorbs water and becomes soft, so the length may appear longer, but it could also become softer and bend more easily.

Choosing better

- Give first aid box to her parents to help the injured person.



Thinking better

Accept all the relevant responses.

Worksheets

Worksheet 1

- A. 1. c. 2. c. 3. d. 4. d. 5. a.
 B. 1. true 2. false 3. false 4. true 5. false
 C. 1. 10, 1000 2. 1000, 7 3. 1000, 2000
 4. 6000, 6 5. 5, 5000

Worksheet 2

- A. 1. C 2. C 3. C 4. D 5. D
 B. 1. false 2. false 3. true 4. true 5. false
 C. 1. 7, 7000 2. 1000, 1 3. 1000, 8000
 4. 2000, 2 5. 6, 600

Worksheet 3

- A. 1. 1 2. 1 3. 7 4. 5000 5. 3
 B. 1. true 2. false 3. false 4. true 5. true
 C. 1. 2, 2000 2. 100, 8 3. 1000, 25000
 4. 6000, 6 5. 18, 1800

Worksheet 4

- A. 1. 1000 2. 5500 3. 369
 4. 948 5. 456
 B. 1. 3000 2. 1450 3. 9800
 4. 5500 5. 12500
 C. 1. 2, 718 2. 7, 350 3. 2, 525
 4. 1, 058 5. 6, 841

Book of Holistic Teaching

Developing better

- A. 1. in 2. on
 B. Humans can reach the Moon easily, but traveling to Mars is harder due to its distance, longer travel time, and life support challenges.
 C. Four sports items and their units of measurement are:
 1. **Football** - measured in **diameter** (centimeters or inches).
 2. **Tennis racket** - measured in **length** (centimeters).
 3. **Basketball** - measured in **diameter** (inches).
 4. **Cricket bat** - measured in **weight** (grams or kilograms).

Book of Project Ideas

Making better

Accept all relevant responses.