Lesson 53 MEASURES

Reading scales and measuring instruments accurately

CURRICULUM ALIGNMENT

MEA.MSR.4b find, interpret and deduce measures experimentally with increasing precision.

MEA.MSR.4a determine and calculate units of measurement in fractional and/or decimal form to solve practical problems.

INTERACTIVES Measurement Rulers · display

WHAT THIS LESSON TEACHES

To read a scale accurately count the small spaces between two numbered marks and divide the gap by that count to find what each small space is worth.

→ Between 200 g and 300 g there are 5 spaces so each is worth 20 g.

→ A jug between 500 ml and 600 ml with 5 spaces means each space is 20 ml.

MODEL THIS ON THE BOARD

READING A WEIGHING SCALE

1. Count the spaces between 200 g and 300 g: there are 5.
2. Divide 100 g by 5 to get 20 g per space.
3. The needle is on the second space after 200 g so add 40 g.
4. The reading is 240 g.

ANSWER KEY

a) 350 g

b) 540 g

c) 2750 g

Q1: 580 ml

Q2: 12.5 cm

Q3: 2250 g

a) Always — This is the exact method shown in the lesson.

b) Always — The space value is found first then multiplied by the position.

c) Never — The space value stays the same across the whole scale.

d) Sometimes — It depends on the required precision for the task.

EXTENSION SHEET · STRETCH ANSWERS

S1: 28.4 cm

S2: 14.6 cm

S3: 14.8 cm

S4: 7.6 cm

S5: 14.4 cm