

3

A peek beyond the point

Fill In The Blanks

- 1 mm = _____ m
 - 1 cm = _____ m
 - 1 g = _____ kg
 - 45 paise = ₹ _____
 - 3.4 = 3 ones and _____ tenths
 - 5.08 = 5 ones and _____ hundredths
 - 10 tenths = _____ unit
 - 100 hundredths = _____ unit
 - 0.2 = _____ hundredths
 - 2.50 = _____
 - 0.75 = 75 _____
 - 1.25 m = _____ cm
 - 450 mm = _____ cm
 - 3.456 rounded to two decimal places = _____
 - 0.009 = _____ thousandths
- 0.125 kg =
(a) 125 g (b) 12.5 g
(c) 1250 g (d) 1.25 g
 - Closest to 2:
(a) 1.89 (b) 2.1
(c) 2.01 (d) 1.8
 - 3.045 =
(a) 3 ones 45 thousandths
(b) 3 ones 45 hundredths
(c) 3045 thousandths
(d) Both a and c
 - 0.2 + 0.02 =
(a) 0.22 (b) 0.202
(c) 0.4 (d) 0.222

Multiple choice questions

- 4.06 means:
(a) 4 ones and 6 tenths
(b) 4 ones and 6 hundredths
(c) 4 tens and 6 hundredths
(d) 406 hundredths
 - Which is greatest?
(a) 0.45 (b) 0.405
(c) 0.504 (d) 0.54
 - 250 cm =
(a) 2.5 m (b) 25 m (c) 0.25 m (d) 2500 m
 - Which equals 3.50?
(a) 3.5 (b) 3.05 (c) 35.0 (d) 0.35
 - 5.4 overs means:
(a) 30 balls (b) 34 balls
(c) 29 balls (d) 32 balls
- 8.75 – 2.5 =
(a) 6.25 (b) 6.2
(c) 6.35 (d) 5.25

True or False

- 0.20 and 0.2 are equal.
- 1 mm = 0.01 cm.
- 0.09 > 0.9
- 1.005 > 1.05
- 75 paise = ₹0.075
- 10 hundredths = 1 tenth
- 3.450 = 3.45
- 2.345 has 3 decimal places
- 1000 g = 1 kg
- 0.75 + 0.25 = 1

Assertion & reason1. A: $0.5 = 0.50$

R: Zeros on the right do not change value

2. A: $1 \text{ cm} = 0.1 \text{ m}$ R: $1 \text{ m} = 100 \text{ cm}$ 3. A: $3.405 > 3.45$

R: Compare digits from left

Very short answer

- Convert 345 mm into metres.
- Arrange: 0.5, 0.05, 0.55, 0.505
- Write 7 hundredths in decimal form.
- Convert ₹2.75 into paise.
- Find: $12.45 + 3.5$
- Find: $15.75 - 8.625$
- Convert 2.5 m into cm.
- Write 9.04 in words.
- Which is greater: 5.045 or 5.405?
- Convert 0.8 kg into grams.

Word problems

- A cloth piece is 3.75 m. Another is 4.85 m. Find total length.
- A farmer sold 2.5 kg apples and 3.75 kg oranges. Find total fruit sold.
- A bottle contains 1.25 L juice. 0.75 L consumed. Find remaining.
- A student runs 1.5 km daily for 5 days. Total distance?
- A ribbon is 5.6 m. 2.75 m used. Remaining?
- A packet weighs 0.85 kg. How many grams?
- A carpenter cuts 2.45 m and 1.55 m wood from 5 m plank. Remaining?
- A bill is ₹125.75. ₹200 paid. Find balance returned.
- A tank holds 500.5 L. 250.25 L drained. Remaining?

10. Find average of 3.5 kg, 4.75 kg, 5.25 kg.

11. A cricket team scored 45.5 overs. How many balls bowled?

12. Convert 125 mm into metres.

13. 3 pens each cost ₹12.75. Total cost?

14. A book is 2.35 cm thick. 12 books stacked. Height?

15. Compare 1.005 and 1.05

HOTS

- Insert two decimals between 3.4 and 3.5.
- Smallest decimal using digits 3, 5, 7 once each.
- Greatest decimal using digits 4, 1, 8 once each.
- Make a decimal closest to 25 using digits 2, 5, 1, 8 once.
- Which is closer to 1: 0.98 or 1.02?
- Explain why $0.300 = 0.3$
- Show 4.375 on number line (steps).
- Find difference between 5.000 and 4.999
- Explain why $0.09 < 0.9$
- Create a word problem involving 3 decimal numbers and solve it.

CASE STUDY – 1**Supermarket Billing**

Riya went to a supermarket and bought the following items:

Rice: 2.75 kg

Sugar: 1.5 kg

Dal: 0.85 kg

The price per kg is ₹42.50.

Questions:

- Find the total weight of items purchased.
- Find the total cost of the items.
- If Riya pays ₹250, how much money will she get back?
- Convert the total weight into grams.

CASE STUDY – 2

Cloth Shop Measurement

A tailor has three pieces of cloth:

3.75 m

4.25 m

2.5 m

Each shirt requires 1.25 m of cloth.

Questions:

1. Find the total cloth available.
2. How many shirts can be stitched?
3. How much cloth will remain unused?
4. Convert the remaining cloth into centimetres.

CASE STUDY – 3

Pocket Money Saving

Aman saves money for 5 days:

Day 1: ₹25.50

Day 2: ₹30.75

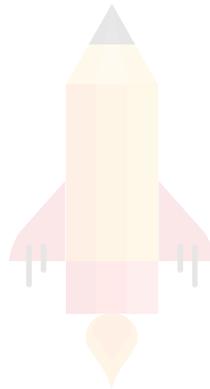
Day 3: ₹18.25

Day 4: ₹20.00

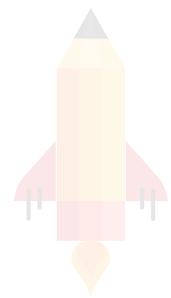
Day 5: ₹15.50

Questions:

1. Find the total savings.
2. Find the average daily saving.
3. Convert the total savings into paise.
4. If he buys a book costing ₹90.75, how much money is left?



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Answers

Fill in the Blanks

- 0.001
- 0.01
- 0.001
- 0.45
- 4
- 8
- 1
- 1
- 20
- 2.5
- hundredths
- 125
- 45
- 3.46
- 9

MCQs

- (b)
- (d)
- (a)
- (a)
- (b) → 5 overs = 30 balls + 4 = 34 balls
- (a)
- (c)
- (d)
- (a)
- (a)

True or False

- True
- True
- False
- False
- False
- True
- True
- True
- True
- True

Assertion & Reason

- 0.345 m
- $0.05 < 0.5 < 0.505 < 0.55$
- 0.07

Short Answer

- $4.75 + 3.205 + 2.5 = 10.455$
- $15.305 - 7.850 = 7.455$
- $450 \div 100 = 4.5$ m
- $4.65 > 4.605 > 4.506 > 4.056$
- $5.75 - 2.25 = 3.5$ m
- 3500 g = 3.5 kg
- $0.75 + 1.25 + 2.05 = 4.05$
- $6.465 > 6.456$
- $250.5 + 125.75 = 376.25$ L
- 0.06 m = 6 cm

Word Problems

- 8.60 m
- 6.25 kg
- 0.50 L
- 7.5 km
- 2.85 m
- 850 g
- $2.45 + 1.55 = 4, 5 - 4 = 1$ m
- $200 - 125.75 = ₹74.25$
- $500.5 - 250.25 = 250.25$ L
- $(3.5 + 4.75 + 5.25) \div 3$
 $= 13.5 \div 3 = 4.5$ kg
- 45 overs = 270 balls
0.5 overs = 3 balls
Total = 273 balls
- 125 mm = 0.125 m
- $12.75 \times 3 = ₹38.25$
- $2.35 \times 12 = 28.2$ cm
- $1.05 > 1.005$

HOTS

- 3.41, 3.45 (any valid two)
- 3.57
- 8.41
- 25.18 (closest possible arrangement)
- 0.98 (difference 0.02; 1.02 difference 0.02 – both equally close)

- Because trailing zeros do not change place value
- Divide between 4 and 5 into 10 parts → locate 4.3 → divide again
- 0.001
- Because 9 tenths > 9 hundredths
- (Example solution)
If a rope is 2.5 m, another 3.75 m and third 1.25 m:
Total = 7.5 m

CASE STUDY 1

Supermarket Billing

Given:

Rice = 2.75 kg

Sugar = 1.5 kg

Dal = 0.85 kg

Price per kg = ₹42.50

1. Total weight

$$2.75 + 1.50 + 0.85 \\ = 5.10 \text{ kg}$$

2. Total cost

$$\begin{aligned} \text{Total weight} \times \text{price per kg} \\ = 5.10 \times 42.50 \\ = 5.10 \times 42.5 \\ = (5.10 \times 40) + (5.10 \times 2.5) \\ = 204 + 12.75 \\ = ₹216.75 \end{aligned}$$

3. Change from ₹250

$$250 - 216.75 \\ = ₹33.25$$

4. Convert into grams

$$5.10 \text{ kg} \times 1000 \\ = 5100 \text{ g}$$

CASE STUDY 2

Cloth Shop

3.75 m

4.25 m

2.5 m

1. Total cloth

$$3.75 + 4.25 + 2.5$$

$$= 10.5 \text{ m}$$

2. Shirts possible

Each shirt = 1.25 m

$$10.5 \div 1.25$$

$$= 8 \text{ shirts}$$

3. Cloth used

$$8 \times 1.25 = 10 \text{ m}$$

$$\text{Remaining} = 10.5 - 10$$

$$= 0.5 \text{ m}$$

4. Convert to cm

$$0.5 \times 100$$

$$= 50 \text{ cm}$$

CASE STUDY 3

Pocket Money

Savings:

25.50

30.75

18.25

20.00

15.50

1. Total savings

$$= ₹110.00$$

2. Average

$$110 \div 5 = ₹22$$

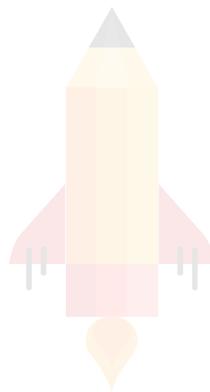
3. In paise

$$110 \times 100 = 11,000 \text{ paise}$$

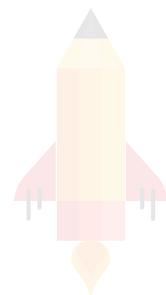
4. After buying book

$$110 - 90.75$$

$$= ₹19.25$$



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