

Mathematics

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(Chapter - 8) (Decimals)

(Class - VI)

Exercise 8.4

Question 1:

Express as rupees using decimals:

- (a) 5 paise
- (c) 20 paise
- (e) 725 paise

- (b) 75 paise
- (d) 50 rupees 90 paise

Answer 1:

(a) $\because 1 \text{ paise} = ₹ \frac{1}{100}$

$\therefore 5 \text{ paise} = \frac{1}{100} \times 5 = ₹ 0.05$

(c) $\because 1 \text{ paise} = ₹ \frac{1}{100}$

$\therefore 20 \text{ paise} = \frac{1}{100} \times 20 = ₹ 0.20$

(e) $\because 1 \text{ paise} = ₹ \frac{1}{100}$

$\therefore 725 \text{ paise} = \frac{1}{100} \times 725 = \frac{725}{100} = ₹ 7.25$

(b) $\because 1 \text{ paise} = ₹ \frac{1}{100}$

$\therefore 75 \text{ paise} = \frac{1}{100} \times 75 = ₹ 0.75$

(d) $\because 1 \text{ paise} = ₹ \frac{1}{100}$

$\therefore ₹ 50 + 90 \text{ paise} = 50 + \frac{1}{100} \times 90 = ₹ 50.90$

Question 2:

Express as meters using decimals:

- (a) 15 cm
- (c) 2 m 45 cm
- (e) 419 cm

- (b) 6 cm
- (d) 9 m 7 cm

Answer 2:

(a) $\because 1 \text{ cm} = \frac{1}{100} \text{ m}$

$\therefore 15 \text{ cm} = \frac{1}{100} \times 15 = 0.15 \text{ m}$

(c) $\because 1 \text{ cm} = \frac{1}{100} \text{ m}$

$\therefore 2 \text{ m } 45 \text{ cm} = 2 + \frac{1}{100} \times 45 = 2.45 \text{ m}$

(e) $\because 1 \text{ cm} = \frac{1}{100} \text{ m}$

$\therefore 419 \text{ cm} = \frac{1}{100} \times 419 = \frac{419}{100} = 4.19 \text{ m}$

(b) $\because 1 \text{ cm} = \frac{1}{100} \text{ m}$

$\therefore 6 \text{ cm} = \frac{1}{100} \times 6 = 0.06 \text{ m}$

(d) $\because 1 \text{ cm} = \frac{1}{100} \text{ m}$

$\therefore 9 \text{ m } 7 \text{ cm} = 9 + \frac{1}{100} \times 7 = 9.07 \text{ m}$

Question 3:

Express as cm using decimals:

- (a) 5 mm
- (c) 164 mm
- (e) 93 mm

- (b) 60 mm
- (d) 9 cm 8 mm

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Answer 3:

$$(a) \because 1 \text{ mm} = \frac{1}{10} \text{ cm}$$

$$\therefore 5 \text{ mm} = \frac{1}{10} \times 5 = 0.5 \text{ cm}$$

$$(c) \because 1 \text{ mm} = \frac{1}{10} \text{ cm}$$

$$\therefore 164 \text{ mm} = \frac{1}{10} \times 164 = 16.4 \text{ cm}$$

$$(e) \because 1 \text{ mm} = \frac{1}{10} \text{ cm}$$

$$\therefore 93 \text{ mm} = \frac{1}{10} \times 93 = 9.3 \text{ cm}$$

$$(b) \because 1 \text{ mm} = \frac{1}{10} \text{ cm}$$

$$\therefore 60 \text{ mm} = \frac{1}{10} \times 60 = 6 \text{ cm}$$

$$(d) \because 1 \text{ mm} = \frac{1}{10} \text{ cm}$$

$$\therefore 9 \text{ cm } 8 \text{ mm} = 9 + \frac{1}{10} \times 8 = 9 + 0.8 = 9.8 \text{ cm}$$

Question 4:

Express as km using decimals:

(a) 8 m

(b) 88 m

(c) 8888 m

(d) 70 km 5 m

Answer 4:

$$(a) \because 1 \text{ m} = \frac{1}{1000} \text{ km}$$

$$\therefore 8 \text{ m} = \frac{1}{1000} \times 8 = 0.008 \text{ km}$$

$$(c) \because 1 \text{ m} = \frac{1}{1000} \text{ km}$$

$$\therefore 8888 \text{ m} = \frac{1}{1000} \times 8888 = 8.888 \text{ km}$$

$$(b) \because 1 \text{ m} = \frac{1}{1000} \text{ km}$$

$$\therefore 88 \text{ m} = \frac{1}{1000} \times 88 = 0.088 \text{ km}$$

$$(d) \because 1 \text{ m} = \frac{1}{1000} \text{ km}$$

$$\therefore 70 \text{ km } 5 \text{ m} = 70 + \frac{1}{1000} \times 5 = 70.005 \text{ km}$$

Question 5:

Express as kg using decimals:

(a) 2 g

(b) 100 g

(c) 3750 g

(d) 5 kg 8 g

(e) 26 kg 50 g

Answer 5:

$$(a) \because 1 \text{ g} = \frac{1}{1000} \text{ kg}$$

$$\therefore 2 \text{ g} = \frac{1}{1000} \times 2 = 0.002 \text{ kg}$$

$$(c) \because 1 \text{ g} = \frac{1}{1000} \text{ kg}$$

$$\therefore 3750 \text{ g} = \frac{1}{1000} \times 3750 = 3.750 \text{ kg}$$

$$(e) \because 1 \text{ g} = \frac{1}{1000} \text{ kg}$$

$$\therefore 26 \text{ kg } 50 \text{ g} = 26 + \frac{1}{1000} \times 50 = 26.050 \text{ kg}$$

$$(b) \because 1 \text{ g} = \frac{1}{1000} \text{ kg}$$

$$\therefore 100 \text{ g} = \frac{1}{1000} \times 100 = 0.1 \text{ kg}$$

$$(d) \because 1 \text{ g} = \frac{1}{1000} \text{ kg}$$

$$\therefore 5 \text{ kg } 8 \text{ g} = 5 + \frac{1}{1000} \times 8 = 5.008 \text{ kg}$$