



NCERT Solutions For Class 7 Maths Fractions and Decimals Exercise 2.5

**Q1. Which is greater?**

(i) 0.5 or 0.05 (ii) 0.7 or 0.5 (iii) 7 or 0.7

(iv) 1.37 or 1.49 (v) 2.03 or 2.30 (vi) 0.8 or 0.88

**Ans:**

(i) 0.5 or 0.05

Converting these decimal numbers into equivalent fractions,

$$0.5 = \frac{5}{10} = \frac{5 \times 10}{10 \times 10} = \frac{50}{100} \text{ and } 0.05 = \frac{5}{100}$$

It can be observed that both fractions have the same denominator.

As  $50 > 5$ ,

Therefore,  $0.5 > 0.05$

(ii) 0.7 or 0.5

Converting these decimal numbers into equivalent fractions,

$$0.7 = \frac{7}{10} \text{ and } 0.5 = \frac{5}{10}$$

It can be observed that both fractions have the same denominator.

As  $7 > 5$ ,

Therefore,  $0.7 > 0.5$

(iii) 7 or 0.7

Converting these decimal numbers into equivalent fractions,

$$7 = \frac{7}{1} = \frac{7 \times 10}{1 \times 10} = \frac{70}{10} \text{ and } 0.7 = \frac{7}{10}$$

It can be observed that both fractions have the same denominator.

As  $70 > 7$ ,

Therefore,  $7 > 0.7$

(iv) 1.37 or 1.49

Converting these decimal numbers into equivalent fractions,

$$1.37 = \frac{137}{100} \text{ and } 1.49 = \frac{149}{100}$$

It can be observed that both fractions have the same denominator.

As  $137 < 149$ ,

Therefore,  $1.37 < 1.49$

(v) 2.03 or 2.30

Converting these decimal numbers into equivalent fractions,

$$2.03 = \frac{203}{100} \text{ and } 2.30 = \frac{230}{100}$$

It can be observed that both fractions have the same denominator.

As  $203 < 230$ ,

Therefore,  $2.03 < 2.30$

(vi) 0.8 or 0.88

Converting these decimal numbers into equivalent fractions,

$$0.8 = \frac{8}{10} = \frac{8 \times 10}{10 \times 10} = \frac{80}{100} \text{ and } 0.88 = \frac{88}{100}$$

It can be observed that both fractions have the same denominator.

As  $80 < 88$ ,

Therefore,  $0.8 < 0.88$

**Q2.** Express as rupees using decimals:

(i) 7 paise (ii) 7 rupees 7 paise (iii) 77 rupees 77 paise

(iv) 50 paise (v) 235 paise

**Ans:**

There are 100 paise in 1 rupee. Therefore, if we want to convert paise into rupees, then we have to divide paise by 100.

$$(i) \text{ 7 paise} = \text{Rs } \frac{7}{100} = \text{Rs } 0.07$$

$$(ii) \text{ 7 Rs 7 paise} = \text{Rs } 7 + \text{Rs } \frac{7}{100} \\ = \text{Rs } 7.07$$

$$(iii) \text{ 77 Rs 77 paise} = \text{Rs } 77 + \text{Rs } \frac{77}{100} = \text{Rs } 77.77$$

$$(iv) \text{ 50 paise} = \text{Rs } \frac{50}{100} = \text{Rs } 0.50$$

$$(v) \text{ 235 paise} = \frac{235}{100} \text{ rupees} = \text{Rs } 2.35$$

**Q3.** (i) Express 5 cm in metre and kilometre

(ii) Express 35 mm in cm, m and km

**Ans:**

(i) 5 cm

$$5 \text{ cm} = \frac{5}{100} \text{ m} = 0.05 \text{ m}$$

$$5 \text{ cm} = \frac{5}{100000} \text{ km} = 0.00005 \text{ km}$$

(ii) 35 mm

$$35 \text{ mm} = \frac{35}{10} \text{ cm} = 3.5 \text{ cm}$$

$$35 \text{ mm} = \frac{35}{1000} \text{ m} = 0.035 \text{ m}$$

$$35 \text{ mm} = \frac{35}{1000000} \text{ km} = 0.000035 \text{ km}$$

**Q4.** Express in kg:

(i) 200 g (ii) 3470 g (iii) 4 kg 8 g

**Ans:**

$$(i) 200 \text{ g} = \frac{200}{1000} \text{ kg} = 0.2 \text{ kg}$$

$$(ii) 3470 \text{ g} = \frac{3470}{1000} \text{ kg} = 3.470 \text{ kg}$$

$$(iii) 4 \text{ kg } 8 \text{ g} = 4 \text{ kg} + \frac{8}{1000} \text{ kg} = 4.008 \text{ kg}$$

**Q5.** Write the following decimal numbers in the expanded form:

(i) 20.03 (ii) 2.03 (iii) 200.03

(iv) 2.034

**Ans:**

$$(i) 20.03 = 2 \times 10 + 0 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100}$$

$$(ii) 2.03 = 2 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100}$$

$$(iii) 200.03 = 2 \times 100 + 0 \times 10 + 0 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100}$$

$$(iv) 2.034 = 2 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100} + 4 \times \frac{1}{1000}$$

**Q6.** Write the place value of 2 in the following decimal numbers:

(i) 2.56 (ii) 21.37 (iii) 10.25

(iv) 9.42 (v) 63.352

**Ans:**

(i) 2.56

Ones

(ii) 21.37

Tens

(iii) 10.25

Tenths

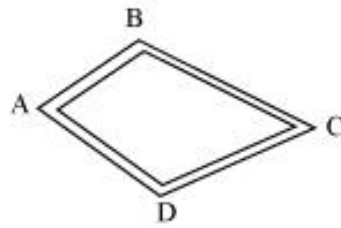
(iv) 9.42

Hundredths

(v) 63.352

Thousandths

**Q7.** Dinesh went from place A to place B and from there to place C. A is 7.5 km from B and B is 12.7 km from C. Ayub went from place A to place D and from there to place C. D is 9.3 km from A and C is 11.8 km from D. Who travelled more and by how much?



**Ans:**

Distance travelled by Dinesh =  $AB + BC = (7.5 + 12.7)$  km

$$\begin{array}{r} 7.5 \\ +12.7 \\ \hline 20.2 \end{array}$$

Therefore, Dinesh travelled 20.2 km.

Distance travelled by Ayub =  $AD + DC = (9.3 + 11.8)$  km

$$\begin{array}{r} 9.3 \\ +11.8 \\ \hline 21.1 \end{array}$$

Therefore, Ayub travelled 21.1 km.

Hence, Ayub travelled more distance.

Difference =  $(21.1 - 20.2)$  km

$$\begin{array}{r} 21.1 \\ -20.2 \\ \hline 0.9 \end{array}$$

Therefore, Ayub travelled 0.9 km more than Dinesh.

**Q8.** Shyama bought 5 kg 300 g apples and 3 kg 250 g mangoes. Sarala bought 4 kg 800 g oranges and 4 kg 150 g bananas. Who bought more fruits?

**Ans:**

Total fruits bought by Shyama = 5 kg 300 g + 3 kg 250 g

= 8 kg 550 g

$$= \left( 8 + \frac{550}{1000} \right) \text{kg}$$

= 8.550 kg

Total fruits bought by Sarala = 4 kg 800 g + 4 kg 150 g

= 8 kg 950 g

$$= \left( 8 + \frac{950}{1000} \right) \text{kg}$$

= 8.950 kg

∴ Sarala bought more fruits.

**Q9.** How much less is 28 km than 42.6 km?

**Ans:**

$$\begin{array}{r} 42.6 \\ -28.0 \\ \hline 14.6 \end{array}$$

Therefore, 28 km is 14.6 km less than 42.6 km.

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