

# Decimals

**Q1.** Express the following as decimals. Also specify the number of significant digits in each.

Number	Decimals	Number of significant digits in decimal
a. $\frac{4}{5}$		
b. 7.6%		
c. $\frac{11}{50}$		
d. $1\frac{7}{1000}$		

**Q2.** Find whether the following fractions can be expressed as terminating or non terminating decimals. Tick under the correct column.

Fraction	Terminating	Non-terminating
$\frac{7}{24}$		
$\frac{7}{99}$		
$\frac{1}{80}$		
$\frac{3}{400}$		

**Q3.** Shreya weighs 23.04 kg whereas her sister Ishita weighs 23.40 kg. Who is heavier and by how much?

Answer: \_\_\_\_\_

**Q4. Multiply the sum of 2.009 and 41.8302 by 1.2 and write the answer rounded off to:**

- a. 4 significant figures : \_\_\_\_\_
- b. 3 significant figures : \_\_\_\_\_
- c. 2 significant figures : \_\_\_\_\_

**Q5. Find the whole number nearest to  $11\frac{1}{5}$ . What should be added to or subtracted from this fraction to get the nearest whole number? (Write the answer in decimals)**

Whole number nearest to  $11\frac{1}{5} =$  \_\_\_\_\_

$11\frac{1}{5} =$  \_\_\_\_\_ (in decimals)

\_\_\_\_\_ should be (subtracted from / added to)  $11\frac{1}{5}$

**Q6. The product of two numbers is 142.544. If one of the numbers is 23.6, find the other number.**

Answer: \_\_\_\_\_

**Q7. Fill in the blanks given below and find which is greater:**

- a. the product of place values of 7 in 72.0173
- OR
- b. the product of place values of 9 in 239.595

Product of place values of 7 in 72.0173

= \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

Product of place values of 9 in 239.595

= \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ is greater.

**Q8. For five consecutive months, Shyam spent 22% of his pocket money and saved the rest to buy a present for his mother. If he got ₹120 as pocket money every month, find out:**

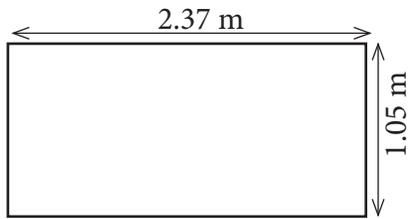
- a. How much money did he save each month?

\_\_\_\_\_

- b. How much total money did he save for the present?

\_\_\_\_\_

**Q9.** Reema has to put lace as a border on table cloths like the one given in the figure below:



If she has 85 metres of lace, how many such table cloths can she make?  
How much lace will be left (if any)?

Answer: Number of table cloths she can make = \_\_\_\_\_

Length of lace left = \_\_\_\_\_

**Q10. Match the following:**

$2.33 \times 0.4$	232.05
$1.105 \times 2.1$	9.32
$4.641 \times 50$	0.932
$0.0932 \times 100$	2.3205

# Answers

1.

Number	Decimals	Number of significant digits in decimal
a. $\frac{4}{5}$	0.8	1
b. 7.6%	0.076	2
c. $\frac{11}{50}$	0.22	2
d. $1\frac{7}{1000}$	1.007	4

2.

Fraction	Terminating	Non-terminating
$\frac{7}{24}$		✓
$\frac{7}{99}$		✓
$\frac{1}{80}$	✓	
$\frac{3}{400}$	✓	

3. Ishita is heavier by 0.36 kg.

4. a. 52.61; b. 52.6; c. 53

5. 11; 11.2; 0.2 should be subtracted from  $11\frac{1}{5}$

6. 6.04

7.  $70 \times 0.007 = 0.49$ ;  $9 \times 0.09 = 0.81$ ; 0.81 is greater

8. a. ₹93.6; b. ₹468

9. 12 table cloths; 2.92 m

10.

$2.33 \times 0.4$	0.932
$1.105 \times 2.1$	2.3205
$4.641 \times 50$	232.05
$0.0932 \times 100$	9.32