

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 _____ = _____

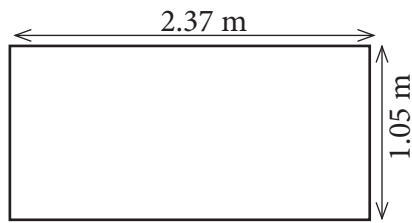
_____ is greater.

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:

2.33×0.4	232.05
1.105×2.1	9.32
4.641×50	0.932
0.0932×100	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.

2.33×0.4	0.932
1.105×2.1	2.3205
4.641×50	232.05
0.0932×100	9.32