4 Decimals

Q1. Match the following with their equivalent decimals:

$\dfrac{1}{8}$	0.1875
23%	0.09
$\dfrac{9}{100}$	0.125
$\dfrac{3}{16}$	0.23

Q2. Find whether the following fractions can be expressed as terminating or non-terminating decimals. Write them under appropriate headings in the table given below:

$$\frac{3}{125}, \frac{7}{800}, \frac{9}{35}, \frac{17}{250}$$

Terminating Decimals	Non- terminating decimals

Q3. Evaluate the following and put the correct sign <, > or =:

a. 75% _____ $\dfrac{11}{25}$

b. $6\dfrac{1}{8}$ _____ 6.015

c. 19% _____ 0.190

Q4. Round off the following decimals to 3 significant figures and add:

Decimals	Decimals rounded off to 3 significant figures	Sum
a. 0.00195, 23.0147	_____ + _____	_____
b. 1.0186, 0.10089	_____ + _____	_____

Q5. Find the difference in the place values of 5 in $5\frac{27}{200}$.

Answer: _____

Q6. Find the product of $2\frac{1}{4}$ and $\frac{12}{21}$. Write the product correct to 3 decimal places.

Answer: Product of $2\frac{1}{4}$ and $\frac{12}{21}$:   _____

Product correct to three decimal places   :   _____

Q7. Rakhi went shopping at a garments shop. The following table lists the cost of items bought by Rakhi:

Item	Cost per piece
Silk top	₹1175.89
Trousers	₹2025.99
Scarf	₹788.02

Rakhi bought two pieces of each item, one for herself and one for her younger sister. What should be her total bill?

Answer: _____

Q8. 2.325 litres of cold drink has to be poured equally in 25 glasses. How much cold drink will be there in each glass? (Express the answer in m*l*.)

Answer: _____

Q9. Fill in the blanks:

a.   8.009 × 100 = _____

b.   7.850 × _____ = 7.85

c.   0.009 × 100 = _____

d.   _____ × 10 = 9.876

Q10. Simplify:

 a. $1.2 \times 1.2 - 1.1 \times 1.1 + 1.3 \times 1.3$

 Answer: _____

 b. 7.5 of $(2.7 - 2.1) \times 12.8 \div 1.6$

 Answer: _____

Answers

1.

$\dfrac{1}{8}$	0.125
23%	0.23
$\dfrac{9}{100}$	0.09
$\dfrac{3}{16}$	0.1875

2.

Terminating Decimals	Non- terminating decimals
$\dfrac{3}{125}$	$\dfrac{9}{35}$
$\dfrac{7}{800}$	
$\dfrac{17}{250}$	

3. a. >

b. >

c. =

4.

Decimals	Decimals rounded off to 3 significant figures	Sum
a. 0.00195 , 23.0147	0.00195 + 23.0	23.00195
b. 1.0186, 0.10089	1.02 + 0.101	1.121

5. 4.995

6. $1.2\overline{85714}$; 1.286

7. ₹7979.80

8. 93 mL

9. a. 800.9; b. 1; c. 0.9; d. 0.9876

10. a. 1.92; b. 36