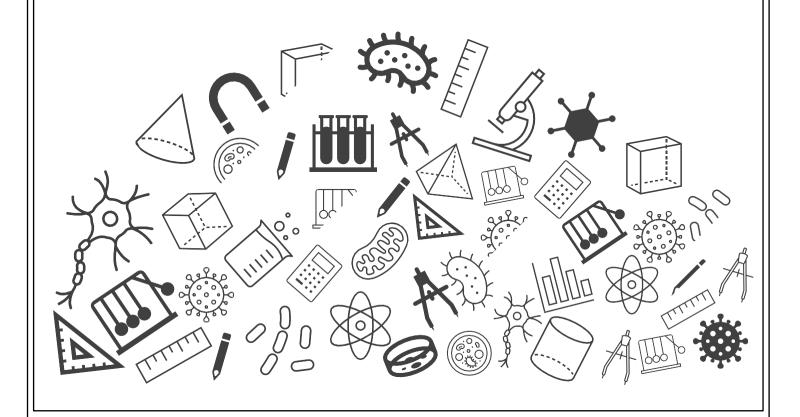
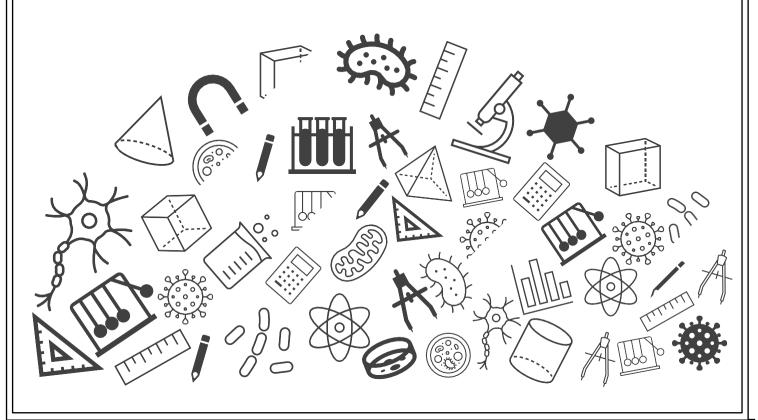


# Grade 06: Maths Exam Important Questions









- 1. Convert the following fractions as decimals:
  - (i)  $\frac{4375}{1000}$  (ii)  $\frac{111}{250}$

  - (iii)  $25\frac{1}{8}$

[4 marks]

$$(\mathsf{i})\frac{4375}{1000} = 4.375$$

[1 mark]

(ii) 
$$\frac{111}{250} = \frac{111 \times 4}{250 \times 4} = \frac{444}{1000} = 0.444$$

[1 mark]

(iii) 
$$25\frac{1}{8} = 25 + \frac{1}{8} = 25 + \frac{1 \times 125}{8 \times 125} = 25 + \frac{125}{1000} = 25 + 0.125 = 25.125$$

[2 marks]



2. In a family there are 3 members. The height of the father is 1.65 m. The mother's height is 154 cm and the height of the son is 1.6 m. Who is the tallest in the family? [3 marks]

1 m = 100 cm  
Hence, 1 cm = 
$$\frac{1}{100}$$
 m = 0.01 m  
[0.5 mark]

Height of the father = 1.65 mHeight of the mother =  $154 \text{ cm} = 154 \times 0.01 = 1.54 \text{ m}$ Height of the son = 1.6 m[0.5 mark]

Height of the father = 1.65 mHeight of the mother =  $154 \text{ cm} = 154 \times 0.01 = 1.54 \text{ m}$ Height of the son = 1.6 m

Now the digit in the whole number part of the height of different family members is the same, i.e., 1.

Now comparing the digit in the tenths place 5 < 6.

Hence, the mother's height is the shortest.

Now comparing the digit in the hundredths place in the height of the father and son: 5 > 0

Hence, 1.65 is the greatest amongst the decimals.

So, the father is the tallest in the family.

[2 marks]



3. The distance between Richa's house and her school hostel is 61 km. For reaching her house from the hostel, she covers 54 km 860 m by taxi, 5 km 65 m by tonga and the rest of the distance by rikshaw. How much distance did Richa cover by rikshaw? [3 marks]

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Distance covered by taxi = 54.860 \text{ km}
Distance covered by tonga = 5.065 \text{ km}
Total distance covered by taxi and tonga
54.860 \text{ km}
+ \underline{5.065} \text{ km}
\underline{59.925} \text{ km}
[1 mark]
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Total distance to be covered by Richa = 61 km Distance covered by taxi and tonga = 59.925 km Distance covered by rikshaw 61.000 km  $-\frac{59.925}{2}$  km  $\frac{1.075}{2}$  km [1 mark]

Distance covered by rikshaw  $= 1.075~\mathrm{km} = 1~\mathrm{km}~75~\mathrm{m}$  [1 mark]

4. Write 0.066 as a fraction in the lowest term.

[2 marks]

Solution:

Fraction: Representing a number in the form  $\frac{a}{b}$ , where a and b are whole numbers and b is not equal to zero.

so, 
$$0.066 = \frac{66}{1000} [1 \text{ mark}]$$

Lowest Form: A fraction is said to be in the simplest (or lowest) form if its numerator and denominator have no common factor except 1.

0.066

$$=\frac{66}{1000}$$
 (dividing numerator and denominator by 2)

$$=\frac{33}{500}$$
 [1 mark]



5. Write the following decimal in the place value table:

148.32 [2 marks]

Number	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
148.32	1	4	8	3	2	0

[2 marks]

Refer the image below for better understanding:

6. Express the following as cm using decimals:

We know that  $10 \ mm = 1 \ cm$ 

$$\therefore 1 \ mm = \frac{1}{10} cm$$

(0.5 mark)

$$=1~mm~ imes~83$$

$$= \frac{1}{10}cm \times 83$$

$$= 8.3 cm$$

(1.5 mark)



7. Express the following as rupees using decimals:

5 paise

We know that 100 paise = Rs 1 (0.5 mark)

$$\therefore$$
 1 paise  $=$  Rs  $\frac{1}{100}$ 

$$5~paise~=~1~paise imes 5$$

$$= Rs \frac{1}{100} \times 5$$

$$=Rs~0.05$$
 (1.5 marks)

8. Rani had ₹18.50. She bought one ice-cream for ₹11.75. How much money does she have now?

[3 marks]

Total money = ₹18.50

Cost of Ice-cream = ₹11.75

Amount left = ₹18.50-₹11.75

[0.5 mark]

Hundreds	Tens	Ones		Tenths	${\it Hundredths}$	Thousandths	
0	1	8		5	0	0	
0	1	1		7	5	0	
0	0	6	•	7	5	0	= 6.75

[2 marks]

So, Rani has ₹6.75 now.

[0.5 marks]



9. What should be added to 25.5 to get 50?

[2 marks]

To get the required result, we have to subtract 25.5 from 50.

$$50.0 \\ -25.5 \\ \hline 24.5$$

[1.5 marks]

So, 24.5 should be added to 25.5 to get 50. [0.5 mark]

10. Find the sum in each of the following:

(a) 
$$0.75 + 10.425 + 2$$

(b) 
$$280.69 + 25.2 + 38$$

[4 marks]

(a) 
$$0.75 + 10.425 + 2$$

	Tens	Ones	Tenths	${ m Hundredths}$	Thousandths
		0	7	5	0
	1	0	4	<b>2</b>	5
+		<b>2</b>	0	0	0
'	1	3	1	7	5

So, 
$$0.75 + 10.425 + 2 = 13.175$$
 [2 marks]

(b) 
$$280.69 + 25.2 + 38$$

$\operatorname{Hundreds}$	$\operatorname{Tens}$	Ones	Tenths	Hundredths
<b>2</b>	8	0	6	9
	<b>2</b>	5	2	0
+	3	8	0	0
3	4	3	8	9

So, 
$$280.69 + 25.2 + 38 = 343.89$$
 [2 marks]