A Textbook of Mathematics for Class 5th

Merry Math-V

Tenths and Hundredths

Chapter 8

What was the length of the smallest pencil you have used? How long is the pencil? Guess cm Measure it using a scale .how good is your guess? We can see that Sahil used a lens to make it look bigger. It is more than 3 centimetres. Here one centimetre has nere one venumene nes 10 equal parts. So each part is one-tenth of a centimetre. One-tenth of a centimetre is called one millimetre (mm). Oh, so this pencil is 3 centimetres and 6 millimetres long. See I am 3 mm long! But I am longer! Seven-tenth of a centimetre or milliletres

We also call one – tenth of a centimeter as 0.1 centimetre. We read it as 'zero point one centimetre '.

So one **millimetre** is the same as 0.1 cm.

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- Merry Math-V
 - ✤ What is the length of this pencil? _____mm.

What is its length in centimetres?

Frogs

Have you seen frogs? Where? How many different types of frogs have you seen? Are all the frogs of the same length? Here are two interesting examples.

Gold Frogs

This kind of frog is among smallest in the world. Its length as only 0.9 cm!

Guess how many such frogs can sit on your little finger!

Bull Frog

But this is among the frogs, It is as long as 30.5 cm!

What does 0.9 cm mean? It is the same as _____ millimetres. We can also say this is nine – tenths of a cm. Right?

So 30.5 cm is the same as _____ cm and millimetre.

About how many of the big frogs will fit on the 1 cm scale?

If they sit in a straight line about how many of the small frogs will cover 1 cm?



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The length of this lady's finger (*bhindi*) is _____ cm and ____mm. We can also write it as _____ cm.

3) Using the scale on this page find the difference in length between candle 1 and candle 3.

Candle 2 Candle 3 Candle 1	Length of	Length in cm and mm	Length in cm
	Candle 1		
	Flame 1		
	Candle 2		
	Flame 2		
	Candle 3		
The com	Flame 3		

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Guess and Colour

First colour the rods as shown, without measuring! Then check.

Rods of length less than 1 cm	Red
Rods of length between 1 cm and 2 cm	Blue
Rods of length between 2 cm and 3 cm	Green
Rods of length between 3 cm and 4 cm	Orange



Guess, Draw and Measure

Guess the lengths to draw these things. Ask your friend to draw the same. After you make the drawing use a scale to measure the length. Whose drawing showed a better guess?

Guess its length and draw	Measure of your drawing	Measure of your friend's drawing
An ant of length less than 1 cm		
Pencil of length about 7 cm		
A glass 11 cm high with water up to 5 cm		
A bangle of perimeter 20 cm		
A curly hair of length 16 cm		

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Our Eyes Get Confused?

Which line is longer? A or B? Measure each line and write how long it is in centimetres. How good is your guess?





Which line is longer? C or D? Measure each line.

How good is your guess?

The Longest Rupee Notes?

What is the length of a 100 rupee note? Guess. Now measure it by using a scale.



Now guess the length and width of many other things. Measure and find the difference between your measure and your guess.

Size of	Your G	Your Guess in cm		Your measure in cm	
	Length	Width	Length	Width	
100 Rupee note					
10 Rupee note					
20 Rupee note					
5 Rupee note					
Post Card					
Merry Math Boo	ok				

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- 5. a) An egg costs two and half- rupees. How much will one and a half dozen cost?
 - b) How many pens can Mannan buy? How much money is left?



6. The price of two pens is Rs _____. Can she buy two pens?



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Practice time – Match these

Match each yellow box with one green and one pink box.



Colourful Design



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Don't get confused! 0.10 is the same as 0.1.

rupee 0.50 and also

rupee 0.5

Remember, this 50 is

Now look at the second sheet. Each strip is divided into ten equal boxes. How many boxes are there in all?



Is each box 1 / 100 part of the sheet?

How many blue boxes are there?

Is Blue equal to 10 / 100 of the sheet? We saw that blue is equal to 1 / 10 of the sheet. We wrote it as 0.1 of the sheet.

Can we say 10 / 100 = 1 / 10 = 0.10 =0.1?

Think: Can we write 10 paise as 0.1 of a rupee?

How many boxes are red? What part of this sheet is this? 15 / _____

Can we also write it as 0.15 of the sheet?

[**Hint:** *Remember we wrote 99 paise as* 0.99 *rupee!*]

Now 3 / 100 of the sheet is black. We can say 0. _____ sheet is black.

How many white boxes are there in the sheet?

What part of the second sheet is white?

✤ Make your designs.





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Sports Day

The school at Anantnag has its sports day. The first five children in long Jump are:



Who is the winner in the long jump?

Write the names of the I, II and III winners on this stand.



Write in Metres



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THE BANK OF KORE

Practice Time

1. Money from different countries

Have you seen any notes or coins used in any other country?

State Bank has a chart to show us how many Indian rupees we can get when we change the money of different countries.

Country	Money	Changed into Indian Rupees
Korea	Won	0.04
Sri Lanka	Rupee (SL)	0.37
Nepal	Rupee	0.63
Honk Kong	Dollar (HK)	5.10
South Africa	Rand	5.18
China	Yuan	5.50
U.A.E.	Dirham	10.80
U.S.A.	Dollar	39.70
Germany	Euro	58.30
England	Pound	77.76

(This is the rate on 15-2-2008)

- a. The money of which country will cost the most in Indian Rupees?
- b. Basit's uncle in America had sent him 10 USA dollars as a gift. Basit used 350 rupees for a school trip. How much money was left with him?
- c. Majeed's father is working in Saudi Arabia. He gets 1000 Saudi Riyals as salary. Imtiyaz's father who is working in Sri Lanka gets 2000 Sri Lankan rupees. Who gets more Indian rupees as salary?

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- d. Sabreena's aunty brought a present for her from China. It costs 30 Yuan. Find what it costs in Indian Rupees.
- e. Nayeema wants some Hong Kong Dollars and Won.
- 1. How many Won can she change for Rs 4? For Rs 400?
- 2. How many Honk Kong Dollars can she change for Rs 508?

2) Deeba went shopping with Rs 200. Look at the bill. The shopkeeper forgot to put the point correctly in the prices. Put the point in the correct place and find out the total amount of the bill.



Item	Quantity	Price (Rupees)
Soap	1	1250
Green gram	1kg	5025
Tea	250 gm	2725
Coconut oil	1 litre	6000
	Total	

3) Which City is cool?



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The temperature in each city was noted at 3 pm on 16 January 2008.

- 1. Which place had the highest temperature at 3 pm? Which place is the coolest at that time?
- 2. How much higher is the temperature in Mumbai from that in Srinagar?



- 3. How many degrees will the temperature need to rise for it to reach 40° C in Thiruvananthapuram?
- 4. How much lower is the temperature of

Kolkata from that in Chennai?

- 5. The temperature in these cities was also noted at 3 am on the same day. Look at the table and answer the questions.
- a. Which place had the lowest temperature at 3 am? Imagine yourself to be there and describe how it would feel.
- b. What is the difference between the temperatures at 3 pm and 3 am in Chennai? In Bhopal?

City	Temperature at 3 am
Chennai	21.1
Mumbai	19.0
Th'puram	21.6
Kolkata	13.1
Bhopal	9.8
Srinagar	1.3
Guwahati	12.8
Jaipur	10.2



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Now Let Us Do These

Q.NO.1 Which part is shaded? Give answer in decimals.



Q.NO.2	Match the	following:	
	a) 4.1 (I) T	wo and three Tenths	
	b) 2.3 (II) 0	One and one Tenths	
	c) 1.1 (III)	Five tenths	
	d) 0.5 (IV)	Four and one tenths	
Q.NO. 3	Write in de	cimal form:	
	a) 4 ones an	nd 7 tenths	
	b) 8 ones, 9	tenths and 6 hundredths	
	c) 5 ones,	7 tenths and 8 hundredths	
Q.NO. 4	Give the ne	ext three terms:	
	(a) 1.2, 1.3	, 1.4,,,	
	(b) 5.92, 5.	93, 5.94,,,	
	(c) 11.8, 11	.9, 12.0,,,	
	(d) 8.01, 8.	02, 8.03,,,	
	(e) 6.07, 6.	08, 6.09,,,	
Q.NO.5 Ma	atch the follo	owing	
	(a) $\frac{3}{10}$	(I) 1.53	
	(b) $\frac{24}{10}$	(II) 0.03	
	(c) $\frac{3}{100}$	(III) 0.3	
	(d) $\frac{24}{100}$	(IV) 2.4	
	(e) $\frac{153}{100}$	(V) 0.24	
Q.NO. 6 E	xpress as a c 72	137	

(a) $\frac{72}{100}$ Express as a fraction:	(b) $\frac{8}{10}$	(c) $\frac{137}{100}$
(a) 0.04	(b) 15.63	(c) 1.31

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Q.NO. 7 Fill in the blanks with equivalent decimals or fractions. (a) 0.6 = 0.60 = 0.

(b)
$$1.7 = 1.70 =$$

(c) $2.4 = = 2.400$

(d)
$$\frac{3}{10} = \frac{30}{100} =$$

(e) $\frac{15}{10} = \frac{150}{100} =$ _____

Answers

Q.NO.1 (b) 1.5 (c) 2.4 (a) 0.2 Q.NO.2 (b) \leftrightarrow I (c) \leftrightarrow II; (d) \leftrightarrow III (a) \leftrightarrow IV 0.NO.3 (b) 8.96 (c) 5.78 (a) 4.7 Q.NO. 4 (a) 1.5, 1.6, 1.7 (b) 5.95, 5.96, 5.97 (c) 12.1, 12.2, 12.3 (d) 8.04, 8.05, 8.06 (e) 6.10, 6.11, 6.12 **Q.NO.** 5 $(a) \leftrightarrow III, \quad (b) \leftrightarrow IV, \quad (c) \leftrightarrow II, \quad (d) \leftrightarrow V, \quad (e) \leftrightarrow I$ Q.NO. 6 (a) 0.72 (b) 0.8 (c) 1.37 and (b) $\frac{1563}{100}$ (c) $\frac{131}{100}$ (a) $\frac{4}{100}$ Q.NO. 7 (e) $\frac{1500}{1000}$ $\frac{300}{1000}$ (a) 0.600 (b) 1.700 (c) 2.40 (d)

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