

1. What was the length of the smallest pencil you have used?

Solution:-

The length of the smallest pencil I have used is 2 cm.

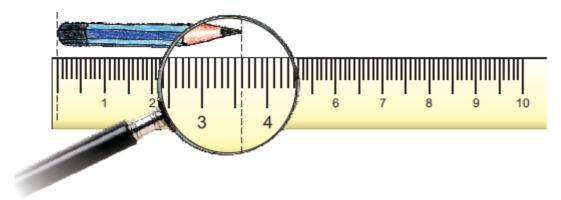
2. How long is this pencil? Guess ____ cm



Solution:-

I guess the pencil is 3 cm long.

3. Measure it using a scale. How good is your guess?



Solution:-

The length of the pencil measured by using the scale is 3 cm and 6 millimetres (mm), so my guess is near to the correct value.

Here, one centimetre has 10 equal parts. So, each part is one-tenth of a centimetre. One-tenth of a centimetre is called one millimetre (mm).

4. What is the length of this pencil? _____ mm. What is its length in centimetres?





Solution:-

The length of the given pencil is 6mm, and its length in centimetres is six-tenth of a centimetre, i.e., 0.6 cm.

5. Frogs

Have you seen frogs? Where? How many different types of frogs have you seen? Are all the frogs of the same length?

Solution:-

Yes, I have seen frogs in ponds, lakes, etc. I have seen many kinds of frogs.

No, not all the frogs are of the same length.

Here are two interesting examples.

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 the smallest in the world. Its length is only 0.9 cm!

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



Bull Frog

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





NCERT Solutions for Class 5 Maths Chapter 10 -Tenths and Hundredths

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

Solution:-

Here, one centimetre has 10 equal parts. So, each part is one-tenth of a centimetre. One-tenth of a centimetre is called one millimetre (mm).

So, 0.9 cm is the same as 9 millimetres.

Yes, we can say 0.9 cm is nine-tenths of a cm.

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

Solution:-

So, 30.5 cm is the same as 30 cm and 5 millimetres.

8. About how many of the big frogs will fit on the 1m scale?

Solution:-

As we know, 1m = 100 cm.

Then, the length of the big frog is 30.5 cm.

So, 3 big frogs will fit on the 1 cm scale.

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

Solution:-

As we know, 1m = 100 cm.

Then, the length of the small frog is 0.9 cm.

= 100/0.9

= 111

If small frogs sit in a straight line, 111 frogs will cover 1m.



Practice time

1. Length of the nail – 2 cm and __ mm or 2 __ cm.



Answer-

Length of the nail – 2 cm and 9 mm or 2.9 cm.

2.



The length of this lady finger (bhindi) is ____ cm and ____ mm.

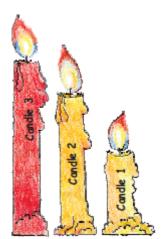
We can also write it as ____ cm.

Answer-

The length of this lady finger (bhindi) is 8 cm and 3 mm. We can also write it as 8.3 cm.

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





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

Length of	Length in cm and mm	Length in cm
Candle 1	2 cm 9 mm	2.9 cm
Flame 1	1 cm 3 mm	1.3 cm
Candle 2	4 cm 9 mm	4.9 cm
Flame 2	1 cm 9 mm	1.9 cm
Candle 3	6 cm	6 cm
Flame 3	1 cm 9 mm	1.9 cm

NCERT TEXTBOOK PAGE NO. - 136

Guess and Colour

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

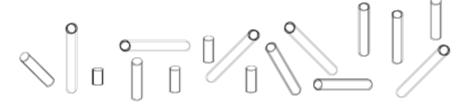
Rods of length less than 1 cm Red.

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.





This should be done by the students.

NCERT TEXTBOOK PAGE NO. - 137

Guess, Draw and Measure

1. 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		

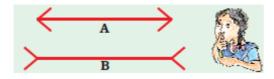


Guess its length and draw	Measure of your drawing	Measure of your friend's drawing
An ant of length less than 1 cm	0.8 cm	1.4 cm
Pencil of length about 7 cm	6.4 cm	7.2 cm
A glass 11 cm high with water up to 5 cm	10.5 cm & 4.6 cm	8 cm and 4.5 cm
A bangle of perimeter 20 cm	18.9 cm	20.2 cm
A curly hair of length 16 cm	15 cm	16.6 cm

NCERT TEXTBOOK PAGE NO. - 137

Our Eyes Get Confused?

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



Answer-

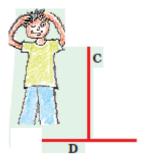
Line B is longer than line A.

Line A = 4.6 cm

Line B = 4.6 cm



2. Which line is longer? C or D? Measure each line. How good is your guess?



Answer-

Line C is longer than line D.

By measuring both, the lines are equal.

C = D = 3.2 cm

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Whose Tail is the Longest?

1. Guess whose tail is the longest. Now, measure the tails. How good is your guess?



Answer-

From the figure, we know that the monkey's tail is the longest. The measurement of tails is given below.

Animal	Rat	Lizard	Puppy	Cat	Pig	Monkey
Length of tail	1.4 cm	1.8 cm	0.9 cm	1.3 cm	1.1 cm	2.3 cm



THE LONGEST RUPEE NOTES?

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



Answer-

I guess that the length of a 100 rupee note is 16 cm. By measuring it, we find that the length of a 100 rupee note is 15.6 cm.

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

Stze of	Your gue	ess tn cm	Your meas	sure tn cm
	length	width	length	width
100 Rupee note				
10 Rupee note				
20 Rupee note				
5 Rupee note				
Post card				
Math-Magic book				



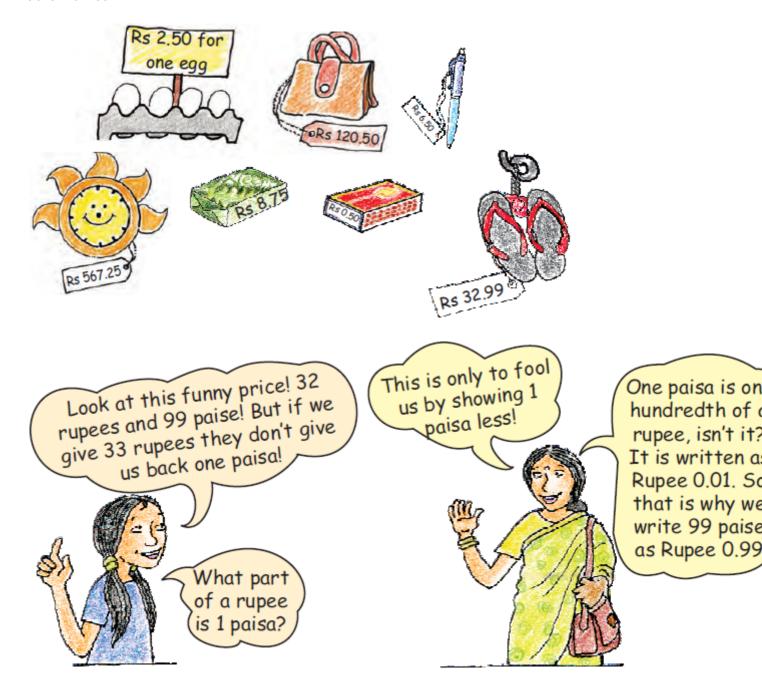
Stze of	Your guess tn cm		Your measure in cm	
	length	width	length	width
100 Rupee note	15.0	6.0	15.4	7.2
10 Rupee note	12.0	5.0	13.6	6.2
20 Rupee note	14.0	6.4	14.7	6.2
5 Rupee note	11.4	6.4	11.6	6.2
Post card	13.0	8.0	14.4	9.4
Math-Magic book	27.0	21.0	28.4	21.4

Here, the difference between measurement and guess is

Stze of	Difference in cm	
	length	width
100 Rupee note	0.4	1.2
10 Rupee note	1.6	1.2
20 Rupee note	0.7	0.2
5 Rupee note	0.2	0.2
Post card	1.4	1.4
Math-Magic book	1.4	0.4



At the market



1. How many paise does a matchbox cost?



The matchbox costs 50 paise.

2. How many matchboxes can be got for Rs. 2.50?

Answer-

5 matchboxes can be got for Rs. 2.50.

3. How many rupees does the soap cost?

Answer-

The soap costs Rs. 8.75.

4. Arun wanted to buy soap. He has a five-rupee coin, 2 one-rupee coins and 4 half-rupee coins. Write in rupees what money he will get back.

Answer-

Money with Arun = $(5 \times 1) + (1 \times 2) + (4 \times 0.5)$

We get

= 5 + 2 + 2

= Rs. 9

We know that

Cost of one soap = Rs. 8.75

So, Arun will get back = 9 - 8.75

It can be written as

- = (900 875) paise
- = 25 paise
- = Re. 0.25
- 5. (a) An egg costs two and a half rupees. How much will one and a half dozen cost?
- (b) How many pens can Kannan buy? How much money is left?





(a) Cost of one egg = Rs. 2.50

So, the cost of one and a half dozen eggs = 12 + 6 = 18 eggs

Here, the cost of 18 eggs = 18×2.50

We can write it as

$$= 18 \times 2 + 18 \times 0.50$$

= 36 + 9

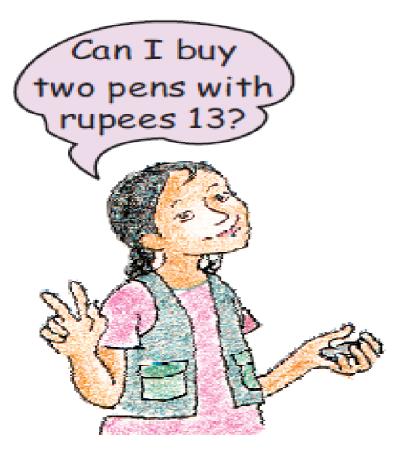
= Rs 45

So, the money left = 60 - 45 = Rs 15

(b) Kannan can buy 2 pens. The money left with him is Rs. 15.



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



Answer-

Yes, she can buy two pens of price Rs. 13.



Practice time - Match these

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

Rupee $\frac{1}{2}$	5 paise	Rupee 0.75
Rupee $\frac{1}{10}$	25 paise	Rupee 0.50
Rupee $\frac{5}{100}$	99 paise	Rupee 0.05
Rupee $\frac{3}{4}$	50 paise	Rupee 0.10
Rupee $\frac{99}{100}$	75 paise	Rupee 0.25
Rupee $\frac{1}{4}$	10 paise	Rupee 0.99

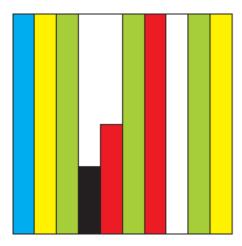




Rupee $\frac{1}{2}$	5 paise	Rupee 0.75
Rupee $\frac{1}{10}$	25 paise	Rupee 0.50
Rupee $\frac{5}{100}$	99 paise	Rupee 0.05
Rupee $\frac{3}{4}$	50 paise	Rupee 0.10
Rupee $\frac{99}{100}$	75 paise	Rupee 0.25
Rupee $\frac{1}{4}$	10 paise	Rupee 0.99



Colourful Design



1. What part of this sheet is coloured blue? __/ 10

Answer-

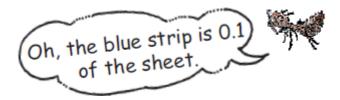
1/10 part of this sheet is coloured blue.

2. What part of the sheet is green?

Answer-

3/10 part of the sheet is green.

3. Which colour covers 0.2 of the sheet?

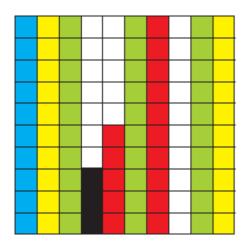


Answer-

Yellow colour covers 0.2 of the sheet.

4. Now, look at the second sheet. Each strip is divided into 10 equal boxes. How many boxes are there in all?





There are $10 \times 10 = 100$ boxes in all.

5. Is each box 1/100 part of the sheet?

Answer-

Yes, each box is 1/100 part of the sheet.

6. How many blue boxes are there?

Answer-

There are 10 blue boxes.

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

Answer-

Yes, blue is equal to 10/100 of the sheet.

We know that

10/100 = 1/10 = 0.1

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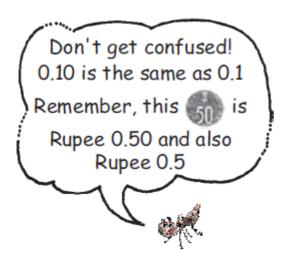
8. Can we say 10/100 = 1/10 = 0.10 = 0.1?

Answer-

Yes, we can say 10/100 = 1/10 = 0.10 = 0.1

9. Think: Can we write ten paise as 0.1 of a rupee?





Yes, we can write ten paise as 0.1 of a rupee.

10. How many boxes are red? What part of the sheet is this? 15/____

Can we also write it as 0.15 on the sheet?

(Hint: Remember, we wrote 99 paise as 0.99 rupee!)

Answer-

15 boxes are red. It is the 15/100 part of the sheet.

Yes, we can also write it as 0.15 of the sheet.

11. Now, 3/100 of the sheet is black. We can say 0.__ sheet is black.

Answer-

Now, 3/100 of the sheet is black, and we can say 0.03 sheet is black.

12. How many white boxes are there on the sheet?

Answer-

There are 22 white boxes on the sheet.

13. What part of the second sheet is white?

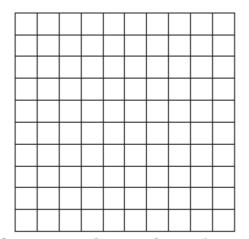
Answer-

22/100 part of the second sheet is white.

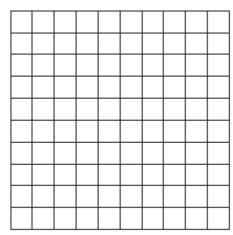
14. Make your designs.



NCERT Solutions for Class 5 Maths Chapter 10 -Tenths and Hundredths



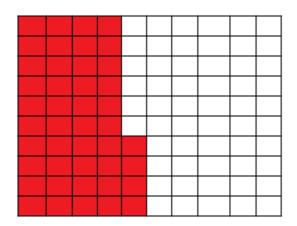
Make a nice design by colouring 0.45 part of this square red.



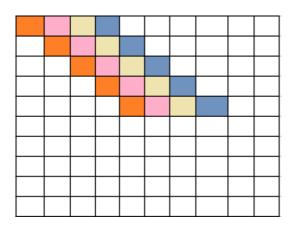
Use four colours. Each colour should cover 0.05 of this square.

Answer-

Colouring 0.45 part of this square red.



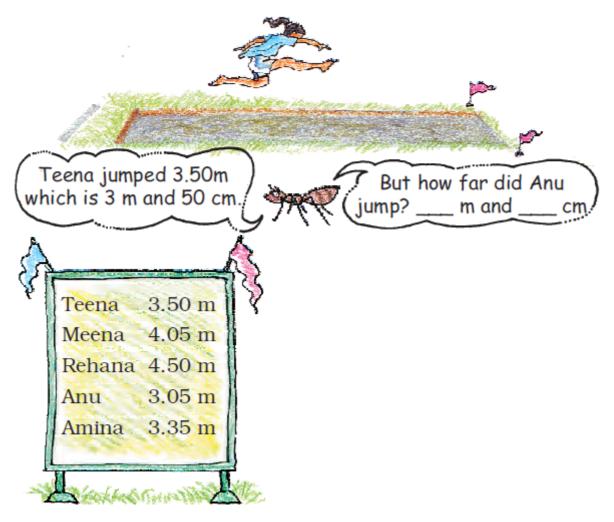
Four colours where each colour covers 0.05 of this square.





Sports Day

The school at Malappuram has its sports day. The first five children in the Long Jump are:



1. But how far did Anu jump? ___ m and ___ cm.

Answer-

Anu jumped 3 m and 5 cm.

2. Who is the winner in the long jump?

Answer-

Rehana is the winner in the long jump.



NCERT Solutions for Class 5 Maths Chapter 10 -Tenths and Hundredths

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

Do you remember that 1 metre = 100 centimetres?

So one centimetre is 1/100 of a metre.

We also write 1 cm as ____ m

Answer-

The names of the I, II and III winners are

I - Rehana

II - Meena

III - Teena

We also write 1 cm as 0.01 m.

NCERT TEXTBOOK PAGE NO. - 142

Write in Metres

3 metre 45 centimetre metres

99 centimetre metres

1 metre and 5 centimetre metres

Answer-

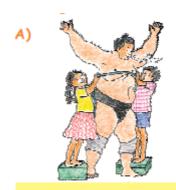
3 metre 45 centimetre = 3.45 m

99 centimetre = 0.99 m

1 metre and 5 centimetre = 1.05 m



How Big Can You Get



After breathing out 1.52 m



On taking a deep breath 1.82 m

The difference in size ____. Do this for yourself and find the difference.

Answer-

Difference in size = 1.82 - 1.52 = 0.30 m

B)

You have to grow 45 cm more to reach 2 m height

What is Dinesh's height in metres?

____ m ___ cm.



Answer-

It is given that

= 2 m - 45 m

We can write it as

= 200 cm - 45 cm

On further calculation,

= 155 cm



= 1 m 55 cm

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Practice time

Money from different countries

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

Answer-

Yes, I have seen notes and coins used in Australia.

2. Shivam 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
Hong 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?

Answer-

The money of England will cost the most in Indian Rupees.

(B) Mithun's uncle in America had sent him 10 US dollars as a gift. Mithun used 350 rupees for a school trip. How much money was left with him?



Answer-

Money given to Mithun by his uncle = 10 US Dollars

We know that 1 US Dollar = 39.70

So, the money received by Mithun = 10×39.70

It can be written as

 $= 10 \times 39 + 10 \times 0.70$



= 390 + 7

= Rs 397

Money used by Mithun for a school trip = Rs 350

So, the money left with him = 397 - 350 = Rs 47

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(C) Majeed's father is working in the U.A.E. He gets 1000 Dirham as his salary. Arun's father, who is working in Sri Lanka, gets 2000 Sri Lankan Rupees. Who gets more Indian rupees as salary?

Answer-

Salary of Majeed's father = 1000 Saudi Riyal

We can write it as

 $= 1000 \times 10.52$

By further calculation,

 $= 1000 \times 10 + 1000 \times 0.52$

So, we get

= 1000 + 520

= Rs 10520

Salary of Arun's father = 2000 Sri Lankan Rupees

We can write it as

 $= 2000 \times 0.37$

By further calculation,

 $= 2000 \times 37 \text{ paise}$

= 74000 paise

= Rs 740

Therefore, Majeed's father gets more Indian rupees.



(D) Leena's aunty brought a present for her from China. It cost 30 Yuan. Find what it costs in Indian rupees.



Answer-

Cost of the gift given to Leena = 30 Yuan

We know that 1 Yuan = Rs 5.50

It can be written as

 $= 30 \times 5.50$

So, we get

 $= 30 \times 5 + 30 \times 0.50$

= 150 + 15

= Rs 165

(E) Astha wants some Hong Kong Dollars and Won.

1. How many Won can she change for Rs 4? For Rs 400?

2. How many Hong Kong Dollars can she change for Rs 508?

Answer-

1. We know that 1 won = Re 0.04

By multiplying both sides by 100,

100 won = 4

Therefore, Astha gets 100 won for Rs 4.

So, for Rs 400, she gets

 $100 \times 100 = 10000 \text{ Won}$

2. We know that 1 HK Dollar = Rs 5.10

It can be written as

= 5 rupees 10 paise



 $= 5 \times 100 + 10$ paise

= 500 + 10

= 510 paise

So, the total money with Astha = Rs 508

We can write it as

 $= 508 \times 100$

= 50800 paise

Here,

50800 paise = 50490 + 310 paise

By further calculation,

 $= 510 \times 99 + 310$ paise

= 510 HKD + 310 paise

We get

310 paise = 300 paise + 10 paise

= 3 rupees 10 paise

= Rs 3. 10

Therefore, Astha can change 99 HK Dollars for Rs 508, and Rs 3.10 is left with her.

3. Kiran 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.

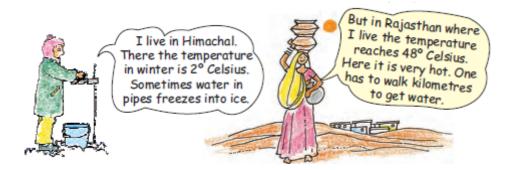


Item	Quantity	Price (Rupees)
Soap	1	1250
Green gram	l kg	5025
Tea	250 gm	2725
Coconut Oil	1 Litre	6000
	Total	



Item	Quantity	Price (Rupees)
Soap	1	12.50
Green gram	l kg	50.25
Tea	250 gm	27.25
Coconut Oil	1 Litre	60.00
	Total	150.00

4. Which city is cool?



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





1. Which place had the highest temperature at 3 pm? Which place is the coolest at that time?

Answer-

Mumbai had the highest temperature at 3 pm.

Srinagar was the coolest place at that time.

2. How much higher is the temperature in Mumbai from that in Srinagar?

Answer-

The temperature in Mumbai was (35.1 - 8.1) ° C = 27° C higher from that in Srinagar.

3. How many degrees will the temperature need to rise for it to reach 40° C in Thiruvananthapuram?

Answer-

The temperature in Thiruvananthapuram should rise 40° C – 33.5° C = 6.5° C to reach 40° C.

4. How much lower is the temperature in Kolkata from that in Chennai?

Answer-

The temperature in Kolkata is 29.9° C $- 26.6^{\circ}$ C = 3.3° C lower 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 being 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

Answer-

(a) Srinagar had the lowest temperature at 3 am.



NCERT Solutions for Class 5 Maths Chapter 10 -Tenths and Hundredths

1.3° C temperature means it would be cold, and water would be frozen to ice. People living there should wear woollen clothes and sit near the fire to keep themselves warm.

(b) The difference in temperature in Chennai is given below.

Temperature at 3 pm = 29.9° C

Temperature at 3 am = 21.1° C

So, the difference = $29.9 - 21.1 = 8.8^{\circ}$ C

The difference in temperature in Bhopal is given below.

Temperature at 3 pm = 25.9° C

Temperature at 3 am = 9.8° C

So, the difference = $25.9 - 9.8 = 16.1^{\circ}$ C